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Conversion Total Hip Arthroplasty: Perioperative and Postoperative Outcomes with the ABLE Approach

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The ABLE™ Approach for Conversion Total Hip Arthroplasty decreases surgical duration and length of stay

Conversion Total Hip Arthroplasty: Perioperative and Postoperative Outcomes with the ABLE™ Approach

Bailey Shevenell, BA, Johanna Mackenzie, MPH, Sarah Hearns, Brian J McGrory, MD, George Babikian, MD, Adam J Rana, MD

Introduction

- Muscle-sparing approaches to total hip arthroplasty (THA) have become increasingly common over the last decade.
- There is currently no data regarding outcomes of the Anterior-Based Muscle-Sparing (ABMS) or ABLE approach in conversion THA procedures.
- Traditionally, conversion THA has been performed through the posterior approach and the outcomes are well studied.
- The purpose of this study was to compare perioperative outcomes of the ABLE and posterior approach in conversion THA.

Methods

- 1. Retrospective cohort study of all conversion THA patients between 2013-2020 (n = 79).
- 2. Patient demographics, preoperative, perioperative, and postoperative data was collected from EPIC.
- 3. Statistical analysis was performed in Excel.

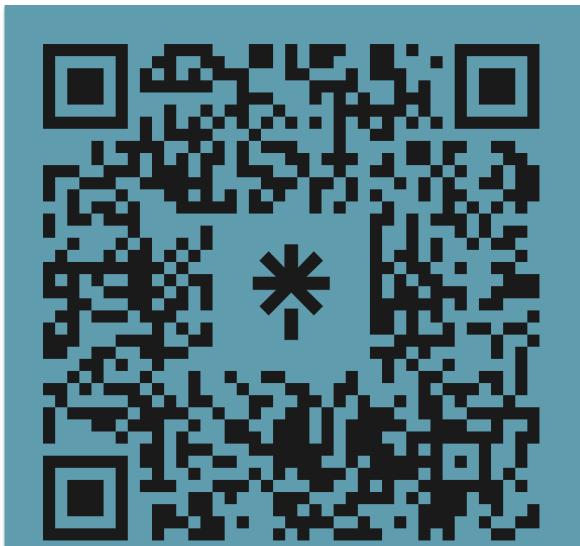
Results

- Compared to the posterior cohort (n = 20), the ABLE cohort (n = 59) demonstrated:
 - A shorter length of surgery (p = 0.036) and length of stay (p = 0.011)
 - A decreased estimated blood loss (p = 0.049)
 - No significant difference in blood transfusions, ED visits, hospital readmissions or complications.

Discussion

- This study is the first to observe the outcomes of conversion THA using the ABLE approach.
- Our data demonstrates that the ABLE approach for conversion THA is as safe and effective as the posterior approach within our 90-day postoperative study period.







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Table 1. Perioperative and Postoperative Outcomes of Conversion THA with the ABLE or Posterior Approach

	ABLE (n = 59)	Posterior (n = 20)	P-Value
Surgery Duration (minutes)	95.37	126.30	0.036
Length of Stay (hours)	52.45	72.81	0.011
Estimated Blood Loss (mL)	279.09	397.50	0.049
Blood Transfusions	4	1	0.424
Complications	1	0	0.293
ED Visit (30 days)	2	0	0.277
Hospital Readmissions (90 days)	0	0	No Difference