

# **Contemporary Indications for Revision Total Hip Arthroplasty after Direct Anterior Approach Total Hip Arthroplasty**

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## **INTRODUCTION:**

Direct anterior approach (DAA) total hip arthroplasty (THA) is gaining in popularity. As utilization of this approach in primary THA grows, an increase in patients ultimately requiring revision surgery after DAA THA could also be expected. However, there is a paucity of data regarding the indications for revision THA (rTHA) after DAA THA and these may be distinct from those reported for other approaches. Our aim was to describe the contemporary indications for rTHA following DAA THA.

## **METHODS:**

Patients undergoing first time revision THA following a DAA THA between 2003-2022 were identified from our enterprise total joint registry. One hundred eighty-two patients (mean age 65, 48% female, mean BMI 31 kg/m<sup>2</sup>) were included. Indications for revision and additional intraoperative data were collected from the Electronic Health Record. Descriptive statistics were performed.

## **RESULTS:**

The most common reason for rTHA following DAA THA was periprosthetic joint infection (PJI) (N=49, 27%), followed by aseptic femoral component loosening (N=43, 24%), periprosthetic fracture (N=30, 16%), and aseptic acetabular component loosening (N=21, 12%). Instability was an uncommon indication for revision and only 7 patients (4%) were revised for recurrent instability. Other uncommon indications for revision included psoas impingement (N=6, 3%), metallosis (N=14, 8%), and leg length discrepancy (N=3, 2%).

## **DISCUSSION AND CONCLUSION:**

In a large, multicenter study of 182 rTHAs performed following index DAA THA, the most common indication for rTHA was PJI, followed by aseptic femoral component loosening and periprosthetic fracture. Instability was not a common indication for rTHA following DAA THA, accounting for only 4% of cases, a notable deviation from historical data with other approaches.