

Title of Presentation:

“Cup within a Cup” Technique in Revision Hip Arthroplasty

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The author has been using a technique for the past 6 years to restore modularity and or provide a large head construct in complex revision hip surgery in younger patients. This study reviews the technique and the early results. 15 acetabular hip revisions have been followed for a minimum of 24 months (range, 24 to 60). The average follow-up is 42 months. Each revision included either a large metal-on-metal (5) shell or a modular cup with polyethylene (10). These were cemented inside of a large nonmodular tantalum revision implant. All cases were Paprosky type 3 defects. The patient average age was 57.4 years. Most patients were now ambulate unassisted or with a cane. One patient has been revised for infection. There have been no dislocations or other complications. The hip center was restored to within 1.5 cm in all cases.

The results from this study suggest that a “cup within a cup” technique may provide a viable revision option for younger patients and patients with severe acetabular defects. To the authors knowledge there are few papers that discuss this technique. Other than the increased cost of the implants, the “cup within a cup” technique provides an option to restore modularity in younger patients and/or provide a large head construct in an effort to decrease instability. In selected patients, this procedure may allow for an advantage over traditional revision THA.”