

Symposium VI

Dual Mobility THA: A Durable Game-Changer or the Next Cause for Concern?

Faculty: P. Maxwell Courtney, MD, Atul F. Kamath, MD, Gwo-Chin Lee, MD, Steven M. Kurtz, PhD

Instability following total hip arthroplasty (THA) remains a leading cause of revision and presents a treatment dilemma for orthopaedic surgeons. Dual mobility (DM) bearing articulations have been used in Europe for decades with success but have only recently been introduced in the United States. Recent data from the American Joint Replacement Registry (AJRR) has shown a marked increase in the use of DM among surgeons from 2011 to 2018. While some studies have shown that DM may decrease the risk of dislocation following both primary and revision THA, concerns exist regarding accelerated wear, corrosion with modular liners, and intraprostatic dislocation. Recent data from the AJRR has shown a marked increase in the use of DM among surgeons from 2011 to 2018. This symposium will follow a case-based format to review the appropriate indications and outcomes following DM in THA. An expert in biomedical engineering will review the tribology and mechanisms of corrosion with modular dual mobility liners. The panelists will also provide several cases for discussion including recognizing complications from DM bearings, novel uses of DM in primary and revision THA, and tips when revising DM patients.

Learning Objectives:

1. Understand the indications and evidenced-based outcomes of dual mobility in primary and revision THA.
2. Discuss the unique complications associated with dual mobility bearings including modular corrosion, intraprostatic dislocation, and femoral neck impingement.
3. Learn the basic science behind corrosion with modular dual mobility acetabular liners.
4. Review novel uses of dual mobility through case presentations in complex primary and revision THA.

Outline:

Introduction

Gwo Chin Lee, MD

Dual Mobility Reduces Dislocations – Why I Use It in All Revisions

P. Maxwell Courtney, MD

Spine Fusions, Yoga Instructors, and Hip Fractures – The Role of Dual Mobility in Primary THA

Atul F. Kamath, MD

Metallosis Is Real – The Basic Science of Corrosion with a Modular Liner

Steven M. Kurtz, PhD

Clinical Concerns with Dual Mobility – Why I Avoid It at All Costs

Gwo-Chin Lee, MD

Discussion

All Faculty

Notes
