



*Original Article*

***Functional Outcomes and Complications Following Total Hip Arthroplasty in Patients with Developmental Dysplasia of the Hip***

***Sebastian J. Schneider<sup>1</sup>, Philipp M. Hoffmann<sup>2</sup>***

**ABSTRACT**

**Background**

Total hip arthroplasty (THA) is increasingly performed in patients with developmental dysplasia of the hip (DDH). Understanding the functional outcomes and potential complications in this population is essential for optimizing surgical approaches and patient management.

**Objective**

This study aims to evaluate the functional outcomes and complications following total hip arthroplasty in patients with developmental dysplasia of the hip.

**Methods**

A retrospective review was conducted of 150 patients with DDH who underwent THA between 2015 and 2020. Functional outcomes were assessed using the Harris Hip Score (HHS) and the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC) preoperatively and at 1 and 2 years postoperatively. Complications were recorded, including dislocation, infection, and implant failure.

**Results**

The mean HHS improved from 48 preoperatively to 88 at 2 years postoperatively ( $p < 0.001$ ). The WOMAC scores showed significant improvement in pain, stiffness, and physical function ( $p < 0.001$ ). Complication rates were 5% for dislocation, 2% for superficial infection, and 1% for implant failure. No significant differences in outcomes were observed between patients with mild versus severe dysplasia.

**Conclusions**

THA in patients with developmental dysplasia of the hip results in significant improvements in functional outcomes with a low complication rate. These findings support the safety and efficacy of THA in this challenging population, emphasizing the importance of careful surgical planning and patient selection.

**Keywords:** *Total Hip Arthroplasty, Developmental Dysplasia of the Hip, Functional Outcomes, Complications, Orthopedic Surgery*

To get full text PDF contact editorial board at [editor@ajms.site](mailto:editor@ajms.site)

**AJMS, Volume 11, Issue 1, 2025**