

## Enhancing Patient Recovery, Optimizing Hospital Efficiency

Supported  
by International  
Consensus\*

### Why choose BioBall® System?

The BioBall® Adapter System serves to preserve the existing anchored hip stem, offering a modular, less invasive alternative.<sup>1</sup> Potential benefits include:

- **reduced surgical time**<sup>1</sup>
- **lower implant costs**<sup>2</sup>
- **less surgical trauma, supporting patient recovery**<sup>1</sup>
- **preserved mobility**<sup>3,4</sup>

\* The EFORT European consensus on off-label use, mix & match and mismatch in hip and knee arthroplasty recommends that when only one component needs revising, mix & match should be allowed to avoid unnecessary component removal.<sup>5</sup>



## Less invasive solution in hip revisions

With its great flexibility and precision, the BioBall® System

- “allows different **length and offset** neck changes to reach a stable total hip arthroplasty”<sup>2</sup>
- “permits the surgeon to perform a quick revision **without removing** the existing components”<sup>2</sup>
- “is **helpful** in cases of unexpected surgical situations like unstable hip prosthesis” (e.g. recurrent dislocation)<sup>2</sup>



“Retaining a well-fixed femoral stem significantly decreases not only the morbidity of the procedure but also blood loss, infection rates, and operating time.”

Chimeno et al., 2023,  
International Orthopaedics<sup>1</sup>

“The importance of this option cannot be overstressed. It will reduce operating time, reduce blood loss and preserve bone stock.”

Tucker et al., 2021,  
EFORT Open Review<sup>4</sup>

Recommended  
by hip revision  
experts<sup>4</sup>



## Targeting key cost drivers

By avoiding complete stem revisions, the BioBall® Adapter System addresses two of the largest cost factors in revision arthroplasty:

- **Surgical duration** – significantly shorter when the stem is retained<sup>1</sup>
- **Implant usage** – reduced by avoiding a stem exchange<sup>1,2</sup>

Less invasive approaches may also be associated with:

- **Lower complication rates**<sup>2</sup>
- **Shorter hospital stays**  
Partial revisions are typically assigned to DRGs with shorter overage length to stay compared to full stem revisions.<sup>5</sup>

Together, these factors may contribute to net cost savings and improved operational efficiency, while maintaining high standards of patient care.



# Better for patients, better for budgets

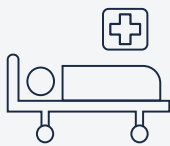
Improving patients'  
recovery journey  
with BioBall® ...

... potentially **reduces**  
**time and costs**



**Avoids stem revision**  
leading to a **reduced**  
**operating time**

**Lower OR cost**, more  
scheduling **flexibility**<sup>1,2</sup>



**Fewer**  
complications

**Fewer** re-admissions and  
potentially **shorter length**  
**of stay**<sup>2,5</sup>



Modularity & **offset**  
**restoration**

**Accurate** biomechanics  
**without stem exchange**<sup>2,3</sup>

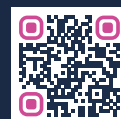


Supports **faster**  
rehabilitation

**Less trauma**, **shorter**  
**recovery time**<sup>1</sup>

## Position your hospital as a center of excellence in hip revision surgery

- By enabling retention of a well-fixed femoral stem, the BioBall® System supports a less invasive revision strategy.<sup>1</sup>
- Hospitals incorporating BioBall® System into their revision portfolio can strengthen both their clinical expertise and economic performance.



Discover the value  
of the BioBall®  
System today

# The BioBall® System

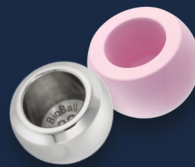
## Hip Revision Without Stem Removal



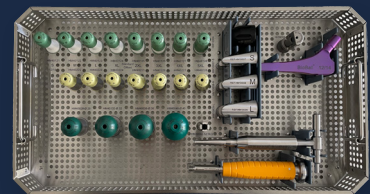
**BioBall®  
AdapterSelector®**



**BioBall® Adapters**



**BioBall® Heads**



**BioBall® Instruments**

**References:** **1.** Chimeno C, et al. *Int Orthop.* 2023;47:2245–2251. doi:10.1007/s00264-023-05833-7 **2.** Pautasso A, et al. *Ann Joint.* 2023;8:35. doi:10.21037/aoj-23-22 **3.** Huber M. Dissertation, Univ. Würzburg. 2021. **4.** Tucker K, et al. *EFORT Open Rev.* 2021;6:495–507. doi:10.1302/2058-5241.6.210080 **5.** Institute for the Hospital Remuneration System (InEK). *German Diagnosis Related Groups (G-DRG) System 2024: DRG Catalogue and Case Weights.* Berlin, Germany; 2024.



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