

**BIOLOX<sup>®</sup> OPTION**  
**FEMORAL HEAD SYSTEM**  
Operative Technique



## INTRODUCTION

The BIOLOX<sup>®</sup>OPTION femoral head system can be used on a new stem taper (12/14 only) for primary and revision cases or on an implanted stem with a slightly damaged taper in revision cases.

This technique describes the pre-operative planning, taper inspection, assembly and implantation in a revision setting.

### PRE-OPERATIVE PLANNING

Revision of total hip arthroplasty should be planned with as much information as possible. Identification of the stem, *in situ*, is the most important pre-operative issue. The *in situ* stem must have a 12/14 neck taper to be compatible with the BIOLOX<sup>®</sup>OPTION femoral heads.

## DETAILED OPERATIVE TECHNIQUE

### STEP 1: HEAD REMOVAL AND STEM TAPER INSPECTION

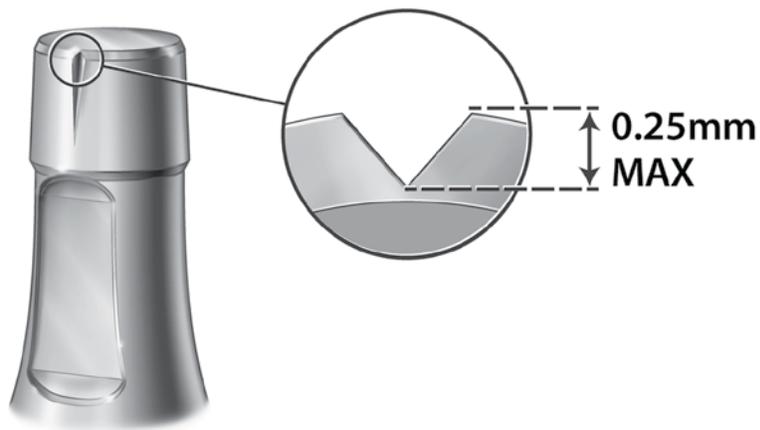
In a revision surgery, extract the remaining femoral head with a suitable extraction instrument to avoid unnecessary damage to the stem taper. Inspect the stem taper making the decision to use this system with either a pristine taper (*Figure 1*) or one with tolerable imperfections—scratches of less than 0.25mm (*Figure 2*). With any imperfections different or worse than *Figure 2*, do not use the BIOLOX<sup>®</sup>OPTION (*Figures 3-5*).

### STEP 2: TRIAL REDUCTION

Once the decision to use the BIOLOX<sup>®</sup>OPTION has been made, use the appropriately sized head trials to determine leg length, offset and range of motion. The BIOLOX<sup>®</sup>OPTION is available in 28, 32 and 36mm and head lengths of -3.5mm, +0mm, +3.5mm and +7mm.



**Figure 1**  
Pristine Taper



**Figure 2**  
Tolerable imperfections with scratches of less than 0.25mm



**Figures 3-5**  
Do not use the BIOLOX®OPTION head system with tapers in these circumstances.



**Figure 6**  
Placing the Femoral Head on the Adapter Sleeve



**Figure 7**  
Applying Downward Manual Pressure

#### **STEP 3: ASSEMBLY**

Based on the trial reduction, select the appropriately sized BIOLOX®OPTION head and adapter. On the back table, align the BIOLOX®OPTION femoral head axially with the adapter (*Figure 6*) and apply downward manual pressure (*Figure 7*). The tapers are engaged once resistance is felt.

**Note:** The BIOLOX®OPTION femoral head and adapter must be implanted together.

#### **STEP 4: IMPLANTATION**

Prior to assembly with the femoral stem, rinse the stem taper and dry with a clean cloth to remove any foreign bodies such as tissue residues, bone fragments or cement particles. Fit the femoral head assembly on the stem taper by twisting lightly while applying downward manual pressure. Impact the head and adapter assembly onto the femoral stem by placing a polymer-faced impactor on the pole of the femoral head component and tapping gently with a mallet in an axial direction to firmly secure the taper connection.

**Caution:** Do not use metal-faced mallets and do not impact forcefully during installation of ceramic components.

## IMPLANT AND ORDERING INFORMATION

Catalog Number	Part Description
170-50-93	BIOLOX <sup>®</sup> OPTION Adapter, -3.5mm
170-50-00	BIOLOX <sup>®</sup> OPTION Adapter, +0mm
170-50-03	BIOLOX <sup>®</sup> OPTION Adapter, +3.5mm
170-50-07	BIOLOX <sup>®</sup> OPTION Adapter, +7mm
170-28-50	BIOLOX <sup>®</sup> OPTION, 28mm
170-32-50	BIOLOX <sup>®</sup> OPTION, 32mm
170-36-50	BIOLOX <sup>®</sup> OPTION, 36mm

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