

aap Joints GmbH Cement Restrictor and Centralizer

Instructions for Use (IFU)

IMPORTANT INFORMATION FOR SURGEON: PLEASE READ PRIOR TO IMPLANTING THIS DEVICE IN A CLINICAL SETTING. THE SURGEON SHOULD BE FAMILIAR WITH THE SURGICAL TECHNIQUE. DESCRIPTION

The hip accessories consists of a cement restrictor and a centralizer.

Cement restrictor are made of UHMWPE and centralizer are made of UHMWPE or PMMA. Products models and details can be referred to surgical techniques.

Components are available in a variety of designs and size ranges intended for both primary and revision applications. The hip accessories are for cemented use only.

INTENDED USE

The Cement Restrictor and the Centralizer are accessories for the cemented stem and are intended to be implanted in the femoral canal. The centralizer is intended to stabilize the cemented stem and bring it into the middle position of the femoral bone canal. The cement restrictor is intended to prevent bone cement from reaching the femoral canal beyond the implant tip of the hip stem. The Cement Restrictor and Centralizer are delivered sterile and for single use only.

Cement Restrictor: UHMWPE Centralizer: UHMWPE or PMMA HOW PRODUCT IS SUPPLIED

Each component of the Hip accessories is supplied STERILE, is contained in individual packages designed to maintain sterility, and is available in a wide range of sizes. Please refer to the current price list. surgical technique or catalog for the catalog numbers and sizes available.

SPECIFICATION OF HIP ACCESSORIES

Cement Restrictor					
Catalog	Description	Size			
A1101-6-2010		10mm			
A1101-6-2012		12mm			
A1101-6-2014	Compant Postrictor LIUMAN/PF	14mm			
A1101-6-2016	Cement Restrictor, UHMWPE	16mm			
A1101-6-2018		18mm			
A1101-6-2020		20mm			
Centralizer					
Catalog	Description	Size			
A1101-7-1010		10mm			
A1101-7-1012		12mm			
A1101-7-1014	Centralizer, PMMA	14mm			
A1101-7-1016	Centralizer, PivilviA	16mm			
A1101-7-1018		18mm			
A1101-7-1020		20mm			
A1101-8-1010		10mm			
A1101-8-1012		12mm			
A1101-8-1014	Centralizer, UHMWPE	14mm			
A1101-8-1016	Centralizer, UniVIVPE	16mm			
A1101-8-1018		18mm			
A1101-8-1020		20mm			

INDICATIONS FOR USE

The VarioLoc cemented stem and its accessories are designed for total or partial hip arthroplasty.

The VarioLoc cemented stem and its accessories are indicated for patients suffering from severe hip pain and disability due to rheumatoid arthritis, osteoarthritis, traumatic arthritis, polyarthritis, collagen disorders, avascular necrosis of the femoral head, and nonunion of previous fractures of the femur and in the presence of proximal femoral bone defects; patients with congenital hip dysplasia, protrusio acetabuli, or slipped capital femoral epiphysis; patients suffering from disability due to previous fusion; patients with previously failed endoprostheses and/or total hip components in the affected extremity; and patients with acute femoral neck fractures.

CONTRAINDICATIONS

- Any joint with active or suspected latent infection.
- Neuromuscular disorders or mental conditions whereby the risks associated with these conditions are outweighed by the benefits to be derived В
- C.. Any condition of the bone stock in which sufficient support and fixation of the implant is in question.
- D. Obese or overweight patients who may place undue loads on the prosthesis which can result in failure of the device.
- Any pathological conditions of the joint that would interfere in achieving appropriate range of motion, adequate head stability, and a well seated and supported prosthetic combination. E.
- Ligamentous or severe muscle laxity or inadequate soft tissue coverage to allow for the normal healing process and for proper hip mechanics to be reestablished.

WARNINGS

- All components are sold sterile. If packages appear damaged or tampered with, they should be returned to the supplier
- Do not implant any device that has been used, even if it appears undamaged. B.
- C.. Do not bend or contour an implant, as this may reduce its fatigue strength and may cause immediate or eventual failure under load.
- D. Machined taper surfaces of the femoral stem, head and acetabular cup must be clean and dry at the time of assembly to ensure proper seating of the implant.
- Never tamper with implants. Tampering may have a detrimental affect on the performance of the implant. E.
- The surgeon and O.R. staff must be extremely careful to protect all components from being marred, nicked, or notched as a result of contact with metal or any abrasive objects. This is particularly important for polished bearing areas and machined taper surfaces.
- G. Tight fixation of all cementless components at the time of surgery is critical to the success of the procedure. Each component must properly press fit into the host bone which necessitates precise operative technique and the use of specified instruments. Bone stock of adequate quality must be present and appraised at the time of surgery
- н Screws and plugs are to be fully seated to ensure stable fixation and to avoid interference with the acetabular liner component.
- In order to minimize the risks of dislocation and loosening of the shell-acetabular bone interface that may occur when using a metallic shell intended for biological fixation, surgeons should consider providing immediate resistance to tensile forces between the metallic shell and the acetabular bone through the use of bone screws
- The surgeon is responsible for verifying that the components selected are compatible with each other, considering the product compatiblity information provided by aap Joints. For ceramicceramic articulation, only a ceramic head and insert from the same manufacturer should be used.
- Do not re-sterilize any products
- Please scrap any products removed from the patient in revision surgeries

PRECAUTIONS

- Before any implant is used, the surgeon should be completely familiar with all aspects of the surgical procedure and the limitations of the device.
- It cannot be expected that joint replacements will withstand the same activity levels as normal healthy bone. В.
- C. Excessive physical activity may result in premature failure of the implant system due to loosening, component fracture, and/or wear. Activities which place unreasonable amounts of stress on the joint should be avoided. Patients should be instructed on the limitations of the prosthesis and how to modify their activities accordingly.
- D. Obese patients may place severe loading on the affected extremity which can be expected to accelerate joint failure. If appropriate, patients should be advised to follow a weight reduction or maintenance program.
- Prosthetic replacement is generally indicated only for patients who have reached skeletal maturity. Total joint replacement in younger patients should be considered only when explicit E. indications outweigh the associated risks of the surgery and modified demands regarding the activity and joint loading are assured.
- F. Proper selection of fixation type and placement of the femoral stem and acetabular component are critical factors in the prevention of unusual stress conditions and their potentially harmful affects on the life expectancy of the implant.
- Patients with pregnancy, cancer, children, breastfeeding women or the contraindications above for total or hemi hip replacement are not suitable for the products. G.
- Except for instruments generally used for joint surgery, only instruments included in the aap Joints instrument list can be used with the implants from aap Joints.

ADVERSE EFFECTS

- All prosthetic replacements have the potential for adverse effects, including infection, loosening, fracture, breakage, bending of the components, component disassembly, or positional changes of the components
- B. Sensitivity or allergic reactions to component materials could occur, and should be ruled out preoperatively.
- Total joint replacement surgery is associated with serious complications including, but not limited to: bone fracture, nerve injury, direct arterial injury, false aneurysm, spontaneous vascular C. occlusion, deep vein thrombosis, ectopic ossification, non-union, dislocation, disassociation, superficial and deep infection, aseptic loosening, component failure, cement breakdown, and third-party wear associated with polymethylmethacrylate or UHMWPE.
- D. Pain due to loosening of the implant, and/or localized pressure associated with incongruencies of the fit, or tissue inflammation of unknown etiology.
- E. Periarticular calcification or ossification, with or without impediment of joint mobility.
- F. Inadequate range of motion due to improper selection or positioning of components.
- Undesirable shortening of limb. G.
- Н. Fretting and crevice corrosion can occur at interfaces between components.
- Trochanteric avulsion or non-union as a result of excess musculartension, early weight bearing, or inadequate reattachment.
- Problems of the knee or ankle of the affected limb or contralateral limb aggravated by leg length discrepancy, too much femoral medialization or muscle deficiencies.

Other complications generally associated with surgery, drugs, blood use, or ancillary devices used.

INFORMATION

Surgical techniques and additional information may be obtained from an aap Joints representative or the company directly.

The users of the products are orthopedic surgeons.

STERILIZATION AND HANDLING

All polyethylene components have been sterilized through an Ethylene Oxide sterilization process. Do not use any component if the package has been breached. Use caution in handling polished

WARNING: Single Use Only: This product is intended for single use only. Do not attempt to re-use, even if the device appears to be undamaged. Risks include device damage leading to poor performance or failure, patient cross-contamination, inadequate sterilization and general liability. Don't resterilize the components.

INTENDED USER

The product should be implanted only by orthopedic surgeons who are thoroughly knowledgeable in the implant's material and surgical aspects and who has been instructed as to its mechanical and material applications and limitations.

BRIEF OPERATION STEPS:

Step 1: Shaping the acetabulum

Step 2: Placing the cemented cup

Step 3: Shaping the proximal femoral bone

Step 4:Placing the hip accessories

Step 5: Placing the cemented stem

Step 6: Placing the femoral head

Step 7: Closing the incision

Details please refer to Surgical Technique, which can be acquired from representative of aap Joints or service@aap-Joints.com

PRODUCT STORAGE CONDITION: Products shall be stored in a dry and clean place with room temperature condition and avoid sun-shining.

CAUTION: Disposal of single-use implant device. This device should be regarded as bio-contaminated and handled accordingly. Plastic or metal implants should be terminally sterilized and disposed of following existing hospital policies and procedures. The products have not been evaluated for safety in the Magnetic Resonance (MR) environment. CAUTION: FEDERAL LAW (USA) RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A PHYSICIAN.

CE Mark on the package insert (IFU) is not valid unless there is a CE Mark on the product (description) label.

aap Joints GmbH, address:Wilhelm-von-Siemens-Straße 23, Aufgang F, 12277 Berlin, Germany

Symbols						
•••	Manufacturer	REF	Catalog number	LOT	Batch Code	
8	Do not re-use	Ţ <u>i</u>	Consult Instructions for use	\triangle	Caution	
STEROLIZE	Do not resterilize	*	Keep away from Sunlight		Use by date	
	Do not use if package is damaged	STERILEEO	Sterilized using ethylene oxide			