BIOTECHNI



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C € 1639 Réf. : **ni_APOGEE** Édition : 04 2020-05

Directive 93/42/CEE Année marquage CE : 2001

Instructions à l'attention du chirurgien et du personnel de bloc opératoire

Instructions to the attention of the qualified surgeon and the operating room personal

APOGEE dual mobility acetabular cup SINGLE USE STERILE IMPLANT



1. DESCRIPTION

BIOTECHNI designs, manufactures and supplies APOGEE dual mobility acetabular cup with associated inserts. The acetabular cups are in stainless steel (ISO 5832-9), and the dual mobility inserts in UHMWPE (ISO 5834-1/2).

The APOGEE dual mobility cup is available in cemented and cementless versions. The cementless version is coated with Ti (ISO 13179-1) for porous titanium and HA for hydroxyapatite (ISO 13779-2). Materials and coating are mentioned on each product label.

2. IMPLANTS IDENTIFICATION

Note: « x » and « y » represent various dimensions:

Reference	Description
CAPxx	APOGEE acetabular cup Ti+HA coated
CAPCXX	APOGEE acetabular cup to be cemented
IDMxx-yy+	PE dual mobility acetabular insert

COMPATIBILITY

The dual-mobility APOGEE cups are fully compatible with the femoral heads and stems supplied by BIOTECHNI (see compatibility table hereafter). The dual mobility inserts IDMxx-yy+ are solely compatible with the dual mobility APOGEE cup. Medical devices listed hereafter are CE 1639 marked according to the Directive 93/42/CEE.

See appendix 1 (A1):

- ICERAMxx-yy: Ceramic insert
- -MU-DBxx-yyyy: Polyethylene insert
- -INxx.0yy: Stainless steel femoral head 5°43'
- -IDMxx-yyy+: Polyethylene insert
- -CERxxx-yy: BIOLOX® Delta ceramic femoral head 5°43′
- -FI040xx: FILLER-3ND cementless femoral stem Ti+HA coated
- -FIC040xx: FILLER-3ND collared cementless femoral stem Ti + HA coated
- -FI043xx: FILLER-3ND cementless varised femoral stem Ti+HA coated
- -FI044xx: FILLER-3ND cementless lateralized femoral stem Ti+HA coated
- -FI050xx: FILLER-3ND cementless femoral stem Ti coated
- FI041xx: FILLER-3ND cemented femoral stem
- -FI020xx: Long FILLER femoral stem HA coated
- -CAPxx; CAPCxx: APOGEE acetabular cup
- -C6DBxx-yy: GYPTIS acetabular cup
- MU-Txx: Coated MULTI acetabular cup
- -CIG-xxTH: Coated IGLOO 18° acetabular cup

- -TTHR5xx; QHxx-yyy; VCxx: Ti+HA coated reconstruction modular femoral stem & locking screw TTHR
- EASYxxyy-zzzD; EASYxxyy-zzzG : Ti+HA coated reconstruction monobloc femoral stem TTHR-EASY

The APOGEE dual mobility cup in cemented version is intended to be used in association with a PMMA-based bone cement (with or without antibiotics) for the fixation of joint prostheses, compliant with ISO 5833 standard. Refer to the instructions of bone cement manufacturer.

4. INTENDED PURPOSE

APOGEE dual mobility cups are intended for total hip joint replacement. The main goal of a joint prosthesis is to reproduce the articular anatomy. The articular prosthesis is intended to reduce pain, and improve mobility to the patient. An artificial joint should only be indicated for patients who failed to respond to non-surgical management options.

5. INDICATIONS

APOGEE dual mobility cups are intended in total hip joint replacement:

In primary intention, in patients with high dislocations risks, for:

- Primary Hip Osteoarthritis
- -Intracapsular Femoral Neck fracture

In revision intention in patients with iterative dislocations, for:

- Revision of failed previous THA (only using a cemented cup)

The acetabular cups are intended to be used on adult patients (skeletally mature).

6. CONTRAINDICATIONS / RISK FACTORS

Conditions which can severely affect the success of the implantation:

- -Any local, acute, or chronic infection. Any infectious illness. Fever or leucocytosis.
- -Systemic and metabolic disorders. Any mental or neuromuscular disorder.
- -Deficient bone stock, osteopenia and/or severe osteoporosis.
- -Drug, tabacco and/or alcohol addiction and/or abuse.
- Non terminated skeletal development.
- -Intense physical activity
- Proved or suspect sensitivity to materials
- -Tumor unresectable or residual.
- Pregnancy, obesity or overweight (BMI >25).

These contraindications are of general order and not exhaustive, and the surgeon will have to evaluate each patient, in order to determine the risks specific to the surgery and the benefit for the patient.

7. PRECAUTIONS

- -The implants must be handled and/or implanted by well-trained, qualified surgeons aware of these instructions for use and having detailed knowledge and experience of orthopaedic preoperative and surgical techniques, and of the potential risks associated to the operation to be performed.
- In order to determine the size of implants, the surgeon should use the X-ray preoperative templates made available.
- -The appropriate choices of type and dimensions of the implant, its positioning and its fixation are of prime importance to ensure the clinical success of the operation.
- -Check the integrity of the packaging and labelling before opening the packaging.
- -Check the absence of scratches or cracks, or any dirt on the implant before implantation.
- When handling the implants, avoid any contact or shock with other material or tools which may alter or damage the implant surface.
- The surgeon must use the instrumentation recommended in accordance with the operative technique available from the manufacturer.
- -The correct functionality of the instruments should be checked before use.

- In situ and peroperative use of any drug product in conjunction with the implant is under the surgeon's responsibility.
- -The implant life within the body depends of several factors which do not allow guaranteeing that the implant withstands indefinitely to the stresses which are normally supported by the normal healthy bone. It is the surgeon's responsibility to provide to its patient before and after surgery all useful information relative to the conditions affecting the implantation success and the limits provided by the implants. Refer to § 10. Information provided by the patient.
- It is recommended to ensure a regular clinical and radiological follow-up to identify any complication, migration, and/or excessive wear of the implant.
- -The apparition of artefacts in MRI images can occur with the use of metallic implants. In order to reduce artefacts, MRI images correction techniques can be used.

8. WARNINGS

- -In no case, the implant has to be contoured, modified or machined to avoid compromising its fatigue strength and causing its immediate or premature failure under load.
- -An incorrect implant positioning can lead to a bad stability, dislocation and/or bending, loosening, wear, breakage of the implanted components.
- Implants already implanted must never be reused, even if it doesn't show any visible damage, because of infection, pain or reintervention risk. BIOTECHNI declines any responsibility for such a use.
- -The only valid sterility method is the one performed by the manufacturer. BIOTECHNI declines any responsibility in case of resterilization by the user.
- -Do not use an implant damaged, contaminated or handled not correctly.
- -BIOTECHNI advises expressly against use of implants manufactured by a third party in combination with the BIOTECHNI implant. BIOTECHNI declines any responsibility for the performance of such combination and possible consequences for the patient's health.

9. SIDE EFFECTS

- -Dislocation of the hip prosthesis due to lack or excess of activity, a traumatism or biomechanical factors.
- -Loosening of the implant may be induced by a healing delay, premature loading, an inadequate initial implant fixation and/or postoperative immobilization, an infection or a traumatism.
- Fissuring, fracture or perforation of the bone can occur due to numerous factors such as poor bone density, unsuitable implant and/or implantation technique, or traumatism.
- Peripheral neuropathies, vascular damage, nerve damage, infections.
- –Each patient scheduled to undergo a surgical operation may be subject to unforeseen per or postoperative complications. The tolerance of surgery, drugs and a foreign body may be different from one patient to another. The reactions and the complications that may arise during surgery and use of the implant must be discussed with the patient and the latter must have full understanding thereof. If infection occurs or if the patient reacts to the implantation of a foreign body (allergy, hypersensitivity to materials), the treatment suited to each case is to be instituted. If the infection or allergy cannot be treated with the prescribed methods, withdrawal of the implant is recommended.
- -Wear of articular surfaces.
- Residual hip pain.

10. INFORMATION PROVIDED TO THE PATIENT

- -The surgeon must inform the patient of the potential risks and undesirable effects of having an artificial joint fitted and have his agreement to the proposed operation. The surgeon must inform the patient about the potential post-operative complications.
- -The surgeon must inform the patient that an artificial joint should not be submitted to the same mechanical stress as the natural joint.
- -The surgeon must inform the patient receiving the device that the safety and durability of the implant depend on his behavior, mainly concerning any excessive loading through patient weight and/or activity

(like heavy physical labour, violent motions, violent sports).

- -An extreme quick overload, such as traumatism, accident, can lead to a fracture, sometimes long after the incident.
- -The patient must inform his surgeon of any event that could compromise the successful integration of the implant and must submit to periodic post-operative checks.
- -Interference risks during physiotherapy: Ask the patient to systematically mention that he/she is carrier of an implant.
- -Interference risks during MRI: BIOTECHNI's implants can be considered as MRI compatible up to 3 T. However, BIOTECHNI always recommends consulting the MRI equipment manufacturer to confirm the compatibility before use.

Note: Please note that any artificial joint is subject to wear and a surgeon may have to operate again. The debris from wear may cause metallosis and osteolysis. The surgeon is responsible for complications caused by incorrect prescription, non-respected operating technique or a lack of asepsis. Under no circumstances cans these complications be attributed to Biotechni.

11. PACKAGING AND STERILIZATION

- -The information mentioned on the product label allows to insure the traceability of its manufacturing. The implants are packaged per unit and are sterilized by gamma irradiation (R).
- -Sterility is guaranteed as long as the packaging is intact and until the expiry date indicated on the packaging.
- -Check for perfect sealing of packaging items (peel pouches or shells and seals) and overall integrity before using the implants.
- -Do not use a product with a damage package or a broken tamper-proof label. In this case, the product must be returned. Do not use an implant if its packaging has been opened outside the operating theatre.
- -When handling the sterile barrier unit (last protection), wear sterile gloves and use sterile instruments.
- -The sterilization indicator on the outer package confirming the gamma sterilization must be red; this colour may be faded by bad storage conditions: heat, humidity, light, etc. In all cases, a stick-on dot that is orange may indicate an unsterile product, and in this case, the product must not be used. The expiry date in indicated on the product label.

12. WASTE MANAGEMENT

Explanted implants and packaging waste from operation must be handed over to a specialized service for environmentally safe disposal in compliance with strict hygiene rules under the responsibility of the medical center, and according to the local applicable regulations.

A product explanted because a defect must be returned to the manufacturer after decontamination.

Note:

Any serious incident occurred in relation to the device and relative instrumentation should be reported to the manufacturer and competent authority of the pertinent Member State.

For any additional information, please contact your representative or the manufacturer.

The reference text is the French text.

A 1	IICERA Mxx-yy	MU- DBxx-	IN×x.0y y	IDMxx- yyy+	CERxxx-
FI040xx	Х	Х	Х	Х	Х
FICO40xx	Х	Х	Χ	Х	Х
FI043xx	Х	Х	Х	Х	Х
FI044xx	Х	Х	Х	Х	Х
FI050xx	Х	Х	Х	Х	Х
FI041xx	Х	Х	Х	Х	Х
FI020xx	Х	Х	X	Х	Х
INxx.0yy	/	Х	/	Х	/
CERxxx-yy	Х	Х	/	Х	/
CAPXX; CAPCXX	/	/	Х	Х	Х
C6DBxx-yy	/	/	Х	/	Х
MU-Txx	Х	Х	Х	/	Х
CIG-xxTH	Х	Х	Х	/	Х
TTHR5xx; QHxx-yyy; VCxx	Х	Х	Χ	Х	Х
EASY xxyy-zzzD ; EASY xxyy-zzzG	Х	Х	Χ	Х	Х

2	Do not reuse - Single use
~	Manufacturer
	Expiry date
\blacksquare	Fragile; handle with care
	Date of manufacture
REF	Reference
STERILE R	Sterilized using irradiation
	Do not use if package is damaged
*	Keep away from rain
*	Keep away from sunlight
LOT	Batch number
STERRIZE	Do not resterilize