

Implantcast, GmbH
% Dave McGurl
Director, Spine Regulatory Affairs
MCRA, LLC.
1050 K Street NW, Suite 1000
Washington, District of Columbia 20001

February 3, 2021

Re: K203420

Trade/Device Name: EcoFit® Hip System Regulation Number: 21 CFR 888.3353

Regulation Name: Hip Joint Metal/Ceramic/Polymer Semi-Constrained Cemented Or Nonporous

Uncemented Prosthesis

Regulatory Class: Class II Product Code: LZO, KWY, OQI Dated: November 19, 2020 Received: November 19, 2020

Dear Dave McGurl:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal

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statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to https://www.fda.gov/medical-device-problems.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/training-and-continuing-education/cdrh-learn). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Vesa Vuniqi Assistant Director DHT6A: Division of Joint Arthroplasty Devices OHT6: Office of Orthopedic Devices Office of Product Evaluation and Quality Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2020 See PRA Statement below.

510(k) Number (if known) K203420		
Device Name		
EcoFit® Hip System		
Indications for Use (Describe)		

Acetabular Inserts

The EcoFit® Hip System is indicated for use as a total hip replacement in cases of:

- Non-inflammatory degenerative joint disease including osteoarthritis and avascular necrosis;
- Rheumatoid arthritis;
- Treatment of non-union, femoral neck fracture, and trochanteric fractures of the proximal femur with head involvement that are unmanageable by other techniques; and
- Revision of previously failed total hip arthroplasty.

The EcoFit® Acetabular Cup is intended for uncemented, press-fit fixation.

The MUTARS® Proximal Femur Replacement System is a modular hip replacement system offering various components that can be combined to replace the hip joint and address major bone defects with various options depending upon the size and location of the defects of each patient.

The MUTARS® Proximal Femur System is intended for uncemented use in total hip arthroplasty or hemiarthroplasty for the following indications:

- Proximal femur replacement in oncology cases where radical resection and replacement of bone is required.
- Limb salvage procedures including surgical intervention for severe trauma, failed previous prosthesis, and/or oncology indications, where radical resection and replacement of the bone is required.

Femoral Stems

The EcoFit® Hip System is indicated for use as a total hip replacement in cases of:

- Non-inflammatory degenerative joint disease including osteoarthritis and avascular necrosis;
- Rheumatoid arthritis:
- Treatment of non-union, femoral neck fracture, and trochanteric fractures of the proximal femur with head involvement that are unmanageable by other techniques; and
- Revision of previously failed total hip arthroplasty.

The EcoFit® Acetabular Cup is intended for uncemented, press-fit fixation.

The MUTARS® ic-Bipolar Head System is intended for uncemented use in hemiarthroplasty, where the femoral head requires replacement but the acetabulum does not, in conjunction with the EcoFit® Hip System and MUTARS® Proximal Femur Replacement System for the following indications:

- Non-inflammatory degenerative joint disease including osteoarthritis and avascular necrosis
- Rheumatoid arthritis
- Correction of functional deformity
- Treatment of non-union, femoral neck fracture and trochanteric fractures of the proximal femur with head involvement, unmanageable using other techniques.

Type of Use (Select one or both, as applicable)	
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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510(K) SUMMARY

Manufacturer: implantcast GmbH

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Prepared By: Dave McGurl

MCRA, LLC

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Date Prepared: November 17, 2020

Device Trade Name: EcoFit® Hip System

Device Class and

Common Name:

Class II, Total Hip Replacement

Classification: 21 CFR §888.3353, Hip joint metal/ceramic/polymer semi-

constrained cemented or nonporous uncemented prosthesis

Product Codes: LZO, KWY, OQI

Indications for Use:

Acetabular Inserts

The EcoFit® Hip System is indicated for use as a total hip replacement in cases of:

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- Treatment of non-union, femoral neck fracture and trochanteric fractures of the proximal femur with head involvement, unmanageable using other techniques.

Device Description:

The purpose of this Traditional 510(k) is to expand the existing EcoFit® Hip System portfolio with a line extension inclusive of additional acetabular inserts and cementless femoral stems.

Predicate Devices:

<u>Primary Predicate</u>: EcoFit® Hip System (K163577 and K180263);

Zimmer Longevity IT Highly Crosslinked Polyethylene Elevated Liners, Continuum Acetabular System, Trilogy Integrated Taper (IT) Acetabular System (K101229)

Substantial Equivalence:

This 510(k) is a line extension of the cleared EcoFit® Hip System (K163577 and K180263). The line extension includes additional acetabular cup inserts (4mm offset and 15° lip) and two additional intermediate femoral stem sizes. The EcoFit® Hip System acetabular liners and cementless femoral stems are substantially equivalent to the components of the legally marketed predicate device systems, the EcoFit® Hip System with respect to intended use and design.

Performance Testing:

All necessary testing has been performed for the "worst case" components of the line extension of the EcoFit® Hip System to assure substantial equivalence to its predicates and to demonstrate the subject devices perform as intended. All testing was performed on test units representative of the finished device. The following testing was conducted to characterize the devices:

- Fatigue Testing (ISO 7206-4 and ISO 7206-6)
- Impingement Testing (ASTM F2582-14)
- Liner Disassembly Testing (ASTM F1820)
- Range of Motion

Conclusions:

The EcoFit® Hip System acetabular inserts and femoral stems subject to this submission possess the same intended use and technological characteristics as the predicate device system components. As such, the EcoFit® Hip System components are substantially equivalent for the intended use.