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Summary of Safety and Effectiveness – K042343

Contact Person:

Denise Duchene
Sr. Regulatory Affairs Specialist
Howmedica Osteonics Corp.
325 Corporate Dr.
Mahwah, NJ 07430
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Date: November 10, 2004

Device: Scorpio® NRG™ Knee System

Classification: Knee Joint; Patellofemorotibial; Polymer/metal/polymer; Semi-constrained; Cemented prosthesis - Class II -21 CFR 888.3560
Product Code: 87 JWH

Predicate Devices:
Scorpio® Total Knee
Scorpio® Scorpio-flex™ Tibial Inserts
Duracon A/P Lipped Tibial Inserts

Indications for Use: The Scorpio® NRG™ Knee System components are for use in total knee arthroplasty for painful, disabling joint disease of the knee resulting from degenerative arthritis, rheumatoid arthritis or post-traumatic arthritis; post-traumatic loss of knee joint configuration and function; moderate varus, valgus or flexion deformity in with the ligamentous structures can be returned to adequate function and stability; revision of previous unsuccessful knee replacement or other procedure. Additional indications for posterior stabilized components include: ligamentous instability requiring implant bearing surface geometries with increased constraint; and/or an absent or non-functioning posterior cruciate ligament.

Proposed Modification: Redesign the femoral and tibial insert component dimensions to provide for increased range of motion.

Device Description: The device includes femoral components and tibial insert components of a total knee system. These components are used for the replacement of the bearing and/or articulating surfaces of the distal femur, proximal tibia to relieve pain, instability and the restriction of motion due to degenerative bone disease, including osteoarthritis, rheumatoid arthritis, failure of other devices or trauma.

Summary of Data: A risk analysis and Research and Development testing have been performed to demonstrate equivalence of the proposed products to the predicate devices. The testing includes range of constraint testing, finite element analysis of contact stress/area and finite element analysis of femoral fatigue. The results demonstrate equivalence.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

FEB - 9 2005

Ms. Denise Duchene
Sr. Regulatory Affairs Specialist
Howmedica Osteonics Corp.
325 Corporate Drive
Mahwah, New Jersey 07430

Re: K042343
Trade/Device Name: Scorpio® NRG™ Knee System (Cruciate Retaining Components)
Regulation Numbers: 21 CFR 888.3560
Regulation Names: Knee joint, patellofemorotibial, polymer/metal/polymer semi-constrained cemented prosthesis
Regulatory Class: II
Product Codes: JWH
Dated: January 18, 2005
Received: January 19, 2005

Dear Ms. Duchene:

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. 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.

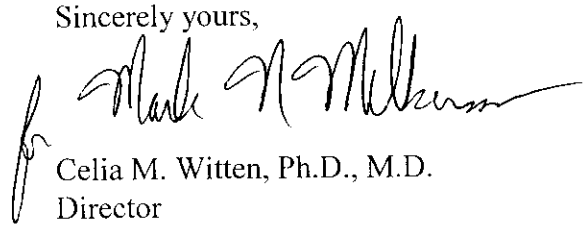
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish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

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 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); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,



Celia M. Witten, Ph.D., M.D.
Director
Division of General, Restorative and
Neurological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

510(k) Number (if known): K042343

Device Name: Scorpio® NRG™ Knee System Components

Indications for Use:
The Scorpio® NRG™ Knee System components are for use in total knee arthroplasty as a result of:

- Painful, disabling joint disease of the knee resulting from degenerative arthritis, rheumatoid arthritis or post-traumatic arthritis
- Post-traumatic loss of knee joint configuration and function
- Moderate varus, valgus or flexion deformity in which the ligamentous structures can be returned to adequate function and stability;
- Revision of previous unsuccessful knee replacement or other procedure;

Additional Indications for Posterior Stabilized Devices:

- Ligamentous instability requiring implant bearing surface geometries with increased constraint
- Absent or non-functioning posterior cruciate ligament

These components are single use only and are intended for implantation with bone cement.

Prescription Use X AND/OR Over-the-Counter Use_____

(PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Mark N. Melkerson

(Division Sign-Off)
Division of General, Restorative, and Neurological Devices

510(k) Number K042343