

K110320

**BIOMET**  
MANUFACTURING CORP.

JUL 21 2011

**510(k) SUMMARY**

A summary of 510(k) safety and effectiveness information in accordance with the requirements of 21 CFR 807.92

<b>Submitter Information</b>	
Name	Biomet Manufacturing Corp.
Address	56 East Bell Drive Warsaw, IN 46581-0857
Phone number	(574) 267-6639
Fax number	(574) 371-1027
Establishment Registration Number	1825034
Name of contact person	Patricia Sandborn Beres Senior Regulatory Specialist
Date prepared	January 26, 2011
<b>Name of device</b>	
Trade or proprietary name	Comprehensive® Proximal Humeral Plating System
Common or usual name	<ul style="list-style-type: none"> <li>• plate, fixation, bone</li> <li>• screw, fixation, bone</li> </ul>
<b>Classification name</b>	<ul style="list-style-type: none"> <li>• Single/multiple component metallic bone fixation appliances and accessories</li> <li>• Smooth or threaded metallic bone fixation fastener</li> </ul>
<b>Classification panel</b>	Orthopedics
<b>Regulation</b>	<ul style="list-style-type: none"> <li>• 21 CFR 888.3030</li> <li>• 21 CFR 888.3040</li> </ul>
<b>Product Code(s)</b>	<ul style="list-style-type: none"> <li>• HRS</li> <li>• HWC</li> </ul>
<b>Legally marketed device(s) to which equivalence is claimed</b>	K062494 - EBI OptiLock® Upper Extremity Plating System K082625 - Synthes (USA) 3.5mm LCP Periarticular Proximal Humeral Plates
<b>Reason for 510(k) submission</b>	New device
<b>Device description</b>	The Comprehensive® Proximal Humeral Plating System is comprised of anatomic plates in seven lengths and non-locking, locking and variable angle screws in multiple lengths. Plate sizing and contouring was developed through the use of Biomet's IntelliFIT Technology which uses contour analysis to map patterns in complex bone on cadaveric specimens to determine plate sizing. (Note, the software was used to determine a set of pre-defined plate sizes and is not used to create individual, patient matched plates.)
<b>Intended use of the device</b>	Bone fixation

Mailing Address:  
P.O. Box 587  
Warsaw, IN 46581-0587  
Toll Free: 800.348.9500  
Office: 574.267.8639  
Main Fax: 574.267.8137  
www.biomet.com

Shipping Address:  
56 East Bell Drive  
Warsaw, IN 46582

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<b>Indications for use</b>		The Comprehensive® Proximal Humeral Plating System is indicated for fractures, fracture dislocations, osteotomies and non-unions of the proximal humerus.	
<b>Summary of the technological characteristics of the device compared to the predicate</b>			
Characteristic	New Device	Predicate Device*	
Plate Design	Anatomic, precontoured	K062494, K082625	
Plate Material	Stainless Steel ASTM F138 & ASTM F139	K062494, K082625	
Plate Dimensions	Length: 75-255mm Thickness: 3-4mm	K062494, K082625	
Screw Design	Non-Locking, Locking and Variable Angle	K062494, K082625	
Screw Material	Stainless Steel ASTM F138, ASTM F139, ASTM F-2229	K062494, K082625	
Screw Dimensions	Diameter: 3.5mm Length: 10-40mm or 10-60mm	K062494, K082625	
<b>PERFORMANCE DATA</b>			
<b>SUMMARY OF NON-CLINICAL TESTS CONDUCTED FOR DETERMINATION OF SUBSTANTIAL EQUIVALENCE</b>			
<b>Performance Test Summary-New Device</b>			
Characteristic	Standard/Test/FDA Guidance	Results Summary	
Plate Strength	Engineering Analysis	Equivalent to predicate	
<b>Comparative Performance Information Summary</b>			
Characteristic	Requirement	New Device	Predicate Device*
Plate Strength	Meet or exceed predicate	Meet	K062494
<b>SUMMARY OF CLINICAL TESTS CONDUCTED FOR DETERMINATION OF SUBSTANTIAL EQUIVALENCE AND/OR OF CLINICAL INFORMATION</b>			
Clinical Performance Data/Information: None			
<b>MAGNETIC RESONANCE (MR) ENVIROMENT</b>			
Biomet® has performed non-clinical Magnetic Resonance Imaging (MRI) studies on Plating Systems manufactured of 316L Stainless Steel per ASTM F138. These Plating Systems are determined to be MR Conditional in accordance to ASTM F2503-08 Standard Practice for Marking Devices and Other Items for Safety in the Magnetic Resonance Environment. MR Conditional refers to an item that has been demonstrated to pose no known hazards in a specified MR environment with specified conditions of use.			
<b>CONCLUSIONS DRAWN FROM NON-CLINICAL AND CLINICAL DATA</b>			
No mechanical or clinical testing was necessary for a determination of substantial equivalence. The results of engineering analysis indicated the devices performed within the intended use, did not raise any new safety and efficacy issues and were found to be substantially equivalent to the predicate devices.			

\*Any statement made in conjunction with this submission regarding and/or a determination of substantial equivalence to any other product is intended only to relate to whether the product can be lawfully marketed without pre-market approval or reclassification and is not intended to be interpreted as an admission or any other type of evidence in patent infringement litigation. [Establishment Registration and Pre-market Notification Procedures, Final Regulation, Preamble, August 23, 1977, 42 FR 42520 (Docket No. 76N-0355)]

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DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Room -WO66-G609  
Silver Spring, MD 20993-0002

Biomet Manufacturing Corp.  
% Ms. Patricia Beres  
Senior Regulatory Specialist  
56 East Bell Drive  
P.O. Box 587  
Warsaw, Indiana 46581-0587

JUL 21 2011

Re: K110320

Trade/Device Name: Comprehensive Proximal Humeral Plating System

Regulation Number: 21 CFR 888.3030

Regulation Name: Single/multiple component metallic bone fixation  
appliances and accessories

Regulatory Class: Class II

Product Code: HRS, HWC

Dated: June 27, 2011

Received: June 28, 2011

Dear Ms. Beres:

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. 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.

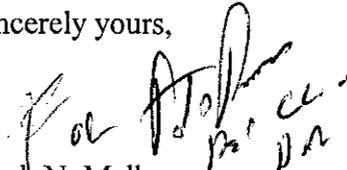
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the 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); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); 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.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

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) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,



Mark N. Melkerson  
Director  
Division of Surgical, Orthopedic  
and Restorative Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

**Indications for Use**

510(k) Number (if known): K110320

Device Name: Comprehensive® Proximal Humeral Plating System

Indications For Use:

The Comprehensive® Proximal Humeral Plating System is indicated for fractures, fracture dislocations, osteotomies and non-unions of the proximal humerus.

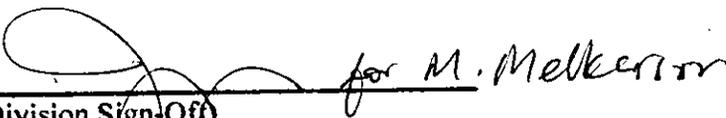
Prescription Use X  
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use NO  
(21 CFR 807 Subpart C)

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

  
(Division Sign-Off)  
Division of Surgical, Orthopedic,  
and Restorative Devices

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