Section X Devices Currently/ Previously Available

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# SECTION X

### DEVICES CURRENTLY/PREVIOUSLY AVAILABLE

### A. General Availability

Metal/metal constrained, and semi-constrained total hip prostheses have been generally available throughout the U.S. and Europe since the 1950's. These were the first (and only) devices that were available to orthopaedic surgeons since the advent of hip replacement arthroplasty. With the introduction of low friction arthroplasty (LFA) by Sir John Charnley in the 1960's, the use of metal/metal articulations for total hip prostheses fell into disfavor, more so in the U.S. than Europe. Use of metal/metal hip prostheses had virtually ceased in the U.S. by the time the Food and Drug Administration's Orthopaedic Device Section of the Surgical and Rehabilitation Devices Panel published its Final Rule on September 4, 1987 which placed these devices into class III. While use of metal/metal hip designs diminished in favor of metal/polyethylene designs in Europe, their use was not discontinued, and, in fact, they are enjoying a renewed interest as an alternative to the conventional metal/polyethylene total hip prostheses.

#### B. Currently Available Metal/Metal Hip Prostheses

Since August 1999, commercially available metal/metal semi-constrained total hip prostheses include:

- Sulzer Orthopedics, Inc. Inter-Op<sup>™</sup> Metasul® Acetabular System K974728, August 3, 1999
- Sulzer Orthopedics, Inc. APR® Metasul® Acetabular System K993569, December 1, 1999
- Biomet, Inc. Biomet Metal-On-Metal Acetabular System K993438, May 18, 2000
- Biomet, Inc. M2a Ringloc Acetabular Liner K002379, August 31, 2000
- DePuy, Inc. a Johnson & Johnson Company Ultima® Metal on Metal Acetabular Cup K001523, August 10, 2000
- DePuy, Inc. a Johnson & Johnson Company Ultimet<sup>®</sup> Metal on Metal Acetabular Cup K002883, September 13, 2000

- Biomet, Inc. M2a<sup>™</sup> Magnum<sup>™</sup> Metal on Metal Acetabular Cup K042037, October 1, 2004
- Sulzer Orthopedics, Inc. Inter-Op Metasul Hooded and Protrusio Acetabular Inserts K001536, July 27, 2000
- Centerpulse Orthopedics, Inc. Epsilon Metasul 32mm Acetabular Insert K033634, September 15, 2004

There have been a number of other metal-on-metal total hip replacement prosthesis systems cleared by FDA that utilize the same femoroacetabular articulations as those identified above.

# C. Previously Available Metal/Metal Hip Prostheses

All of the following metal/metal hip prostheses were distributed in the U.S. prior to the enactment of the Medical Device Amendments to the U.S. Food, Drug and Cosmetic Act; therefore, these devices were not regulated.

Semi-constrained Metal/Metal Total Hip Prostheses:

- 1. Zimmer, USA and OEC , Inc. McKee-Farrar Hip Prosthesis Preamendments Device
- 2. Zimmer USA and OEC, Inc. Sbarbaro Total Hip Prosthesis Preamendments Device
- 3. OEC, Inc. McBride Type Total Hip Prosthesis Preamendments Device

Constrained Metal/Metal Total Hip Prostheses:

1. United States Surgical Corp Sivash Total Hip Prosthesis Preamendments Device

