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**5. 510(k) Summary**  
General Information

Date Compiled December 1, 2005

Classification Class II

Trade Name Acumen Single-Lumen Delivery Sheath

Submitter Acumen Medical, Inc.  
275 Santa Ana Court  
Sunnyvale CA 94085  
Tel: 408-530-1810  
Fax: 408-530-1811

Contact Marybeth Gamber  
E-mail: MGamber@acumen-medical.com

Intended Use

The Acumen Single-Lumen Delivery Sheath is indicated for the introduction of various types of pacing or defibrillator leads and catheters.

Predicate Devices

|  |         |
|--|---------|
| SafeSheath<br>Manufactured by Thomas Medical Products                            | K003731 |
| Attain Access 6216 Left Heart Delivery System<br>Manufactured by Medtronic, Inc. | K012130 |
| Attain Access 6218 Left Heart Delivery System<br>Manufactured by Medtronic, Inc. | K012083 |

Device Description

The Acumen Single-Lumen Delivery Sheath is designed to aid in the introduction of various types of pacing or defibrillator leads and catheters. The sheath will be packaged with a dilator and is designed to be slittable.

Materials

All materials used in the manufacture of the Acumen Single-Lumen Delivery Sheath are suitable for this use and have been used in numerous previously cleared products.

Testing

*In-vitro* and animal testing has been performed and all components, subassemblies, and/or full devices met the required specifications for the completed tests.

Summary of Substantial Equivalence

Acumen Medical, Inc. believes the Acumen Single-Lumen Delivery Sheath is substantially equivalent to the predicate products. The intended use, method of operation, methods of

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construction and materials used, are either identical or substantially equivalent to existing legally marketed predicate products.

  
\_\_\_\_\_  
(Division Sign-Off)  
Division of Cardiovascular  
510(k) Number K053/20



Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

JUN 19 2006

Acumen Medical, Inc  
c/o Ms. Marybeth Gamber  
Director, Regulatory Affairs  
275 Santa Ana Court  
Sunnyvale, CA 94085

Re: K053400

Device Name: Acumen Single-Lumen Delivery Sheath  
Regulation Number: 21 CFR 870.1340  
Regulation Name: Catheter Introducer  
Regulatory Class: II (two)  
Product Code: DYB  
Dated: June 7, 2006  
Received: June 8, 2006

Dear Ms. Gamber:

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.

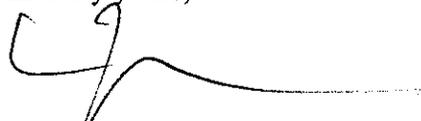
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Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other 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- 1020. 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 (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Bram D. Zuckerman, M.D.  
Director  
Division of Cardiovascular Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

**4. Indications for Use Statement**

510(k) Number (if known): This application

Device Name: Acumen Single-Lumen Delivery Sheath

Indications for Use: The Acumen Single-Lumen Delivery Sheath is intended for the introduction of various types of pacing or defibrillator leads and catheters.

Prescription Use X  
(Per 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use \_\_\_\_\_  
(Per 21 CFR 801 Subpart C)

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

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Concurrence of CDRH, Office of Device Evaluation (ODE)

  
\_\_\_\_\_  
(Division Sign-Off)  
Division of Cardiovascular Devices  
510(k) Number K053400