

MAR 20 2003

K030698

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**C. 510(k) SUMMARY OF SAFETY AND EFFECTIVENESS**  
(in Accordance with SMDA of 1990)

**AESCULAP – MIETHKE SHUNT SYSTEM W/ NPH-DSV**

**COMPANY:** Aesculap<sup>®</sup>, Inc.  
3773 Corporate Parkway  
Center Valley, PA 18034  
Establishment Registration Number: 2916714

**CONTACT:** Matthew M. Hull  
800-258-1946 x 5072 (phone)  
610-791-6882 (fax)

**TRADE NAME:** Aesculap - Miethke Shunt System

**COMMON NAME:** Hydrocephalus Shunt System

**DEVICE CLASS:** Class II

**PRODUCT CODE:** 84 JXG

**CLASSIFICATION:** 882.5550 – Central Nervous System fluid shunt and components.

**REVIEW PANEL:** Neurology

**INDICATIONS FOR USE**

The Miethke Shunt System is intended to shunt cerebrospinal fluid (CSF) from the lateral ventricles of the brain into the peritoneum.

**DEVICE DESCRIPTION**

The components of the Miethke Shunt System can include the NPH-DualSwitch<sup>®</sup> – Valve, a proximal diaphragm valve. The modified NPH-DualSwitch<sup>®</sup> – Valve consists of two chambers and is offers a new low pressure setting (5 cmH<sub>2</sub>O) for patients in the lying position.

**PERFORMANCE DATA**

No applicable performance standards have been promulgated under Section 514 of the Food, Drug and Cosmetic Act for this device system.

**SUBSTANTIAL EQUIVALENCE**

Aesculap<sup>®</sup>, Inc. believes that the Miethke Shunt System with NPH-DualSwitch<sup>®</sup> – Valve is substantially equivalent to our currently marketed Miethke Shunt System with DualSwitch<sup>®</sup> – Valve. The low pressure setting is also equivalent to the setting on the Codman Hakim Micro Precision Valve.



MAR 20 2003

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Mr. Matthew M. Hull  
Senior Regulatory Affairs Associate  
Aesculap, Inc.  
3773 Corporate Parkway  
Center Valley, Pennsylvania 18034

Re: K030698

Trade/Device Name: Aesculap - Meithke Shunt System  
Regulation Number: 21 CFR 882.5550  
Regulation Name: Central nervous system fluid shunt and components  
Regulatory Class: II  
Product Code: JXG  
Dated: March 5, 2003  
Received: March 6, 2003

Dear Mr. Hull:

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.

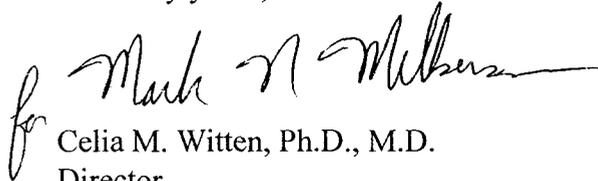
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's 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.

Page 2 - Mr. Matthew M. Hull

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 (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. 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 may be obtained 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,

for 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

**B. INDICATIONS FOR USE STATEMENT**

510(k) Number: K030698

Device Name: **Aesculap - Miethke Shunt System**

**Indication for Use:**

The Miethke Shunt System is intended to shunt cerebrospinal fluid (CSF) from the lateral ventricles of the brain into the peritoneum.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)  
Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use X or Over-the-Counter Use \_\_\_\_\_  
(per 21 CFR 801.109)

*for* Mark A. Miller  
(Division Sign-Off)  
Division of General, Restorative  
and Neurological Devices

510(k) Number K030698