

510(k) Premarket Notification  
Palindrome 14.5Fr Chronic Hemodialysis Catheter with slotted symmetrical tip

## Section B – 510(K) Summary

**Date Summary**

**Was Prepared:** November 24, 2004

**Submitter's****Information:**

Kendall  
a Division of Tyco Healthcare Group LP  
15 Hampshire Street  
Mansfield, MA 02048  
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**Contact:**

James Welsh  
Director, Regulatory Affairs  
Kendall  
a Division of Tyco Healthcare Group LP  
Telephone: 508-261-8532  
Fax: 508-261-8461

**Device Trade**

**Name:** 14.5 Fr Chronic Hemodialysis Catheter with Slotted Symmetrical Tip  
(Palindrome™)

**Device Common**

**Name:** Catheter, Hemodialysis, Apheresis, Intravascular

**Classification Panel:** Gastroenterology

**Legally Marketed Devices To Which Substantial Equivalence Is Claimed:**

The new style of 14.5 Fr Chronic Hemodialysis Catheter with Slotted Symmetrical Tip (Palindrome™) is substantially equivalent to the existing sizes of 14.5 Fr Palindrome™ Hemodialysis Catheter in intended use, materials, physical characteristics, and performance characteristics. The modifications attributed to the predicate device are the addition of side openings (slots) near the tip.

**KENDALL**

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### **Device Description:**

The 14.5 Fr Chronic Hemodialysis Catheter (Palindrome™) has a radiopaque polyurethane shaft with two large inner lumens designed in a “double D” configuration. The distal end of the catheter extends to a symmetrical tip configuration. The proximal end of the catheter shaft contains a polyurethane hub assembly and silicone extension sets.

### **Intended Use:**

The 14.5 Fr Chronic Hemodialysis Catheter with Slotted Symmetrical Tip (Palindrome™) is intended for acute and chronic hemodialysis, apheresis, and infusion. It may be inserted either percutaneously or by cutdown. Implantable lengths greater than 40cm are intended for femoral placement

**Performance Data:** Performance data for the slotted tip configurations of the 14.5 Fr Chronic Hemodialysis Catheter with Symmetrical Tip (Palindrome™) is compared to that of the predicate device identified in this 510(K) summary. Results of verification / validation demonstrate that the new tip configuration is substantially equivalent to the legally marketed device.



DEC 22 2004

Mr. James Welsh  
Director, Regulatory Affairs  
Kendall  
A Division of Tyco Healthcare Group, LP  
15 Hampshire Street  
MANSFIELD MA 02048

Re: K043272  
Trade/Device Name: 14.5 Fr Chronic Hemodialysis Catheter with Slotted Symmetrical Tip  
(Palindrome™)  
Regulation Number: 21 CFR §876.5540  
Regulation Name: Blood access device and accessories  
Regulatory Class: III  
Product Code: 78 MSD  
Dated: November 24, 2004  
Received: November 26, 2004

Dear Mr. Welsh:

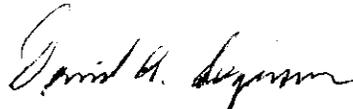
We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 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). You may, therefore, market the device, subject to the general controls provisions of the Act. However, you are responsible to determine that the medical devices you use as components in the kit have either been determined as substantially equivalent under the premarket notification process (Section 510(k) of the act), or were legally on the market prior to May 28, 1976, the enactment date of the Medical Device Amendments. *Please note:* If you purchase your device components in bulk (i.e., unfinished) and further process (e.g., sterilize) you must submit a new 510(k) before including these components in your kit. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, and 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 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 (21 CFR Part 807); 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 the labeling regulation, please contact the Office of Compliance at (301) 240-276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 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,



Nancy C. Brogdon  
Director, Division of Reproductive,  
Abdominal, and Radiological Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

KENDALL

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Palindrome 14.5Fr Chronic Hemodialysis Catheter with slotted symmetrical tip

### Appendix 1

### Indications for Use Statement

**Device Name:**

14.5 Fr Chronic Hemodialysis Catheter with Slotted Symmetrical Tip (Palindrome™)

**Indications for Use:**

The 14.5 Fr Chronic Hemodialysis Catheter with Slotted Symmetrical Tip (Palindrome™) is intended for acute and chronic hemodialysis, apheresis, and infusion. It may be inserted percutaneously or by cut down. Catheters greater than 40 cm implant length are indicated for femoral placement.

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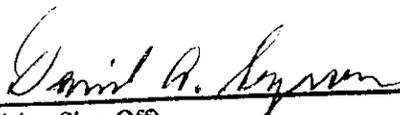
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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use   x    
(Per 21 CFR 801.109)

OR

Over-The-Counter Use                     



(Division Sign-Off)  
Division of Reproductive, Abdominal,  
and Radiological Devices

510(k) Number   K043272