K100775 P. lof3

Becton Dickinson Infusion Therapy Systems Inc. Sandy UT 84070

BD Intima II™ IV Catheter 510(k) Summary

Submitter:

Becton Dickinson Infusion Therapy Systems Inc.

9450 South State Street

Sandy, UT 84070

JUN - 3 2010

Contact person:

Jane Stickel, Director, Regulatory Affairs

Telephone number:

(801) 565-2686

FAX number:

(801) 565-2749

Date summary prepared:

April 9, 2010

Trade name:

BD Intima II™ IV Catheter

Common name:

Peripheral Intravascular Catheter or IV Catheter

Classification name:

Intravascular Catheter 21 CFR § 880.5200

Panel and product code:

80FOZ

Predicate devices:

BD Intima™ Catheter System K833657

BD Insyte-N ™ IV Catheter K843033

Product description:

The Intima II IV Catheter consists of a Vialon® material catheter, a notched needle to enhance flashback visualization, septum, extension tubing and either a straight or Y Luer connector. A needle-accessed PRN is attached to the Luer connector. An end cap is attached to the second Luer connector on the Y design. Blood is contained within the device. A slide clamp is provided on the extension tube. A notched needle resides within the catheter until it is withdrawn through the septum after the catheter has been threaded into the vein. The needle unit includes a paddle that is held during the insertion process. This device does not include a needle-shielding mechanism.

Catalog Number	Product Description
383400	18G x 1.16" (1.3mm x 30mm) Straight luer connection site
383401	20G x 1.16" (1.1mm x 30mm) Straight luer connection site
383402	22G x 1.00" (0.9mm x 25mm) Straight luer connection site
383403	24G x 0.75" (0.7mm x 19mm) Straight luer connection site
383404	22G x 0.75" (0.9mm x 19mm) Straight luer connection site
383405	18G x 1.16" (1.3mm x 30mm) Y luer connection site
383406	20G x 1.16" (1.1mm x 30mm) Y luer connection site
383407	22G x 1.00" (0.9mm x 25mm) Y luer connection site
383408	24G x 0.75" (0.7mm x 19mm) Y luer connection site
383409	22G x 0.75" (0.9mm x 19mm) Y luer connection site

Indications for Use:

510(k) Summary 4/9/10 rev 3

K100775 p. 2073

Becton Dickinson Infusion Therapy Systems Inc. Sandy UT 84070

The BD Intima II™ IV Catheter is inserted into a patient's vascular system for short-term use to monitor blood pressure or administer fluids intravascularly.

Nonclinical test results and technological characteristic comparisons submitted to determine substantial equivalence:

The following technological characteristics of the BD Intima II IV Catheter are substantially equivalent per gauge size to the two predicate devices, the BD Insyte IV Catheter and BD Intima Catheter System:

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Biocompatibility ISO 10993

Distal end configuration

 Gauge sizes color coded according to ISO 10555-5

Minimum catheter/adapter bond strength

Maximum cannula penetration force

Vialon™ material catheter

Maximum catheter tip penetration

No needle-shielding mechanism

Maximum catheter drag

EtO sterilization

Due to product design and/or customer requirements, the following technological characteristics of the BD Intima II IV Catheter differ from the two predicate devices:

Effective catheter lengths and gauge sizes

Notched needle

 Integrated PVC extension tubing with PRN Flexible wings on catheter adapter

Nominal water flow rate

 Minimum cannula/cannula hub bond strength

 Flexible wings on catheter adapter Catheter lie distance

Component materials

In determining substantial equivalence between the subject and predicate devices, testing was done per in-house protocol and according with the following standards, when applicable:

- ISO 10555-1:1995/AMD2:2004 Sterile, single-use intravascular catheters -Part 1 General Requirements: Testing conformed with all sections of this standard.
- ISO 10555-5 Amd 1:1999, Corr 1:2002 Sterile, single-use intravascular catheters – Part 5: Testing conformed to all sections of this standard with the exception of Sections 4.3 and 4.4.4. Section 4.3 relates to the identification

K100775p. 3 of 3

Becton Dickinson Infusion Therapy Systems Inc. Sandy UT 84070

of lumens on a multilumen catheter and does not apply to the Intima II device since it is a single lumen catheter. Section 4.4.4 states that a vent fitting shall be provided. This requirement does not apply to the Intima II device since it is vented via a notch in the needle cannula, not a vent fitting.

 ISO 594/2:1998 Conical fittings with 6% (Luer) taper for syringes, needles, and certain other medical equipment – Part 2 Lock fittings: Testing conformed with all sections of this standard.

The initial biocompatibility testing of the Intima II device conformed to ISO 10993 Part 1:1992 and revisions (1997), and FDA Blue Book Memorandum #G95-1 pertaining to the selection of tests and overall assessment. Various sub-parts of the ISO 10993 standard are updated on independent cycles. To address these changes to the ISO standards, all internal protocols and methods are reviewed and updated as necessary to ensure continued compliance with the standard. Additional testing is performed in the case of significant changes to the standard which may have the potential to impact the test results. In the case of the Intima II device, all ISO 10993 sub-parts which were re-issued in 2009 (e.g. 10993 Part 1, Part 3, and Part 5) have been addressed and the product remains in compliance with these requirements.

Test	Test Method	Results
Cytotoxicity	ISO 10993-5	Passed
Sensitization	ISO 10993-10	Passed
Irritation or Intracutaneous Reactivity -	ISO 10993- 10	Passed
Acute Systemic Toxicity	ISO 10993-11	Passed
Subacute or Subchronic Toxicity	ISO 10993-11	Passed
Genotoxicity	ISO 10993-3	Passed
Implantation	ISO 10993-6	Passed
Hemocompatibility	ISO 10993-4	Passed

The stability test report included in the 510(k) submission supports a shelf life of 3 years.

Clinical tests submitted:

No clinical test results were included in this submission.

Conclusions drawn from nonclinical tests to demonstrate that the device is safe and effective as the legally marketed devices:

Performance testing was conducted in accordance with consensus standards and design control requirements. Nonclinical test results and technological characteristics of like gauge size catheters were shown to be equivalent between the subject device and the two predicate devices. The differences among devices do not raise any new issues of safety or effectiveness. Refer to the two previous tables for the testing conducted to determine substantial equivalence.







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

Becton Dickinson Infusion Therapy Systems Incorporated C/O Mr. Mark Job Responsible Third Party Official Regulatory Technology Services, LLC 1394 25th Street, NW Buffalo, Minnesota 55313

JUN - 3 2010

Re: K100775

Trade/Device Name: BD Intima IITM Closed IV Catheter

Regulation Number: 21 CFR 880.5200 Regulation Name: Intravascular Catheter

Regulatory Class: II Product Code: FOZ Dated: May 21, 2010 Received: May 24, 2010

Dear Mr. Job:

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 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 <u>Federal Register</u>.

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,

Anthony D. Watson, B.S., M.S., M.B.A.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

INDICATIONS FOR USE

Device Name:	Intima II™ IV Catheter	•			
Indications for Use:					
The BD Intima II IV Catheter is inserted into a patient's vascular system for short-term use to monitor blood pressure or administer fluids intravascularly.					
Prescription Use:	XAND/OR	Over-the-Counter Use:			
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Concurrence of CDRH, Office of Device Evaluation (ODE)					
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510(k) Number <u>K/00775</u>