



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
10903 New Hampshire Avenue
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Silver Spring, MD 20993-0002

August 3, 2015

Kaneka Corporation
% Mr. Christopher Sloan
Principal Consultant
Quintiles Consulting
1801 Rockville Pike, Suite 300
Rockville, MD 20852

Re: K150865

Trade/Device Name: Metacross RX PTA Balloon Dilatation Catheter
Regulation Number: 21 CFR 870.1250
Regulation Name: Percutaneous Catheter
Regulatory Class: Class II
Product Code: DQY
Dated: June 25, 2015
Received: June 26, 2015

Dear Mr. Sloan:

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. 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 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); 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 contact the Division of Industry and Consumer Education 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>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 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 Industry and Consumer Education 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,

Brian D. Pullin -S

for Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K150865

Device Name

Metacross RX PTA Balloon Dilatation Catheter

Indications for Use (Describe)

The Metacross RX PTA Balloon Dilatation Catheter is intended to dilate stenosis in the iliac, femoral, ilio-femoral, popliteal, infra-popliteal and renal arteries, and for the treatment of obstructive lesions of native or synthetic arteriovenous dialysis fistulae. This device is also indicated for stent post-dilatation in the peripheral vasculature.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

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

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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510(K) SUMMARY FOR K150865
Metacross RX PTA Balloon Dilatation Catheter

Traditional 510(k) Submitter

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Date Prepared: August 2, 2015

Subject Device Name:

Trade Name	Metacross RX
Common or usual name	Percutaneous (peripheral) transluminal angioplasty catheter
Classification name	Percutaneous catheter [21 CFR 870.1250; product code DQY (or LIT)]
Class	II
Classification Panel	Cardiovascular (74)

Predicate Devices:

- EverCross™ .035" OTW PTA Dilatation Catheter or “EverCross” [K082579 (ev3, Inc.)]
- Ultraverse® RX PTA Dilatation Catheter or “Ultraverse” [K131199 (Bard Peripheral Vascular Inc.)]

Device Description:

Metacross RX PTA Balloon Dilatation Catheter (Metacross RX) is a rapid exchange balloon dilation catheter, which consists of a distal tube, proximal tube, balloon, guidewire transition tube, radiopaque markers, hub, and strain relief. A balloon is attached to the distal end of the catheter, and it can be inflated and deflated using the inflation device connected to the hub at the proximal end. Metacross RX has a lumen (guidewire transition tube) at the distal end of the catheter through which a guidewire can be inserted, and also an opening along the balloon and distal tube to the guidewire port for the introduction of a guidewire.

The maximum compatible diameter of a guidewire used together with Metacross RX in PTA procedure is 0.035 inches; hence, sheathless guiding catheters and sheaths with a diameter of 6 or 7 Fr have been deemed to be compatible with Metacross RX. The nominal inflated balloon diameters range from 3.0 mm to 12.0 mm with balloon working lengths of 20 mm to 200 mm. Three different catheter working lengths will be provided: 900, 1350 and 2000 mm.

The Metacross RX is provided with the following accessory device:

- Flushing Needle: provided per one catheter device for the purpose of flushing and filling of the guidewire lumen with heparinized saline before use.

Indications for Use

The Metacross RX is intended to dilate stenosis in the iliac, femoral, ilio-femoral, popliteal, infra-popliteal and renal arteries, and for the treatment of obstructive lesions of native or synthetic arteriovenous dialysis fistulae. This device is also indicated for stent post-dilatation in the peripheral vasculature.

Comparison of Indications for Use to Predicate Devices

The indications for use of the Metacross RX is identical to that of the EverCross. The Metacross RX has the same intended use (percutaneous transluminal angioplasty) and similar indications for use as the Ultraverse. Therefore, the subject device, Metacross RX, may be considered substantially equivalent to predicate devices.

Comparison of Technological Characteristics to Predicate Devices

Technological Comparison to Predicate Devices

The Metacross RX has the following similarities to the predicate devices:

- Same intended use (same as EverCross and Ultraverse)
- Same indications for use (same EverCross and similar to Ultraverse)
- Same target population (same as EverCross and Ultraverse)
- Same operating principle (same as EverCross and Ultraverse)
- Similar materials (similar to EverCross and Ultraverse)
- Same fundamental scientific technology (same as EverCross and Ultraverse)
- Same sterility assurance level and method of sterilization (same as EverCross and Ultraverse)

Performance Testing

To demonstrate substantial equivalence of Metacross RX to the predicate devices, the technological characteristics and performance criteria were evaluated the using the bench testing recommendations outlined in the FDA Guidance Document “Class II Special Controls Guidance Document for Certain Percutaneous Transluminal Coronary Angioplasty (PTCA) Catheters” dated September 8, 2010. The following *in vitro* tests were performed on the subject device:

Dimensional Verification, Balloon Preparation, Deployment and Retraction, Balloon Rated Burst Pressure, Balloon Fatigue (Repeat Balloon Inflations), Balloon Compliance, Balloon Inflation and Deflation Time, Catheter Bond Strength,

Flexibility and Kink Test, Torque Strength, Radiopacity, Particulate Evaluation, Balloon Rated Burst Pressure (in Stent), and Balloon Fatigue (Repeat Balloon Inflations; in Stent), Transportation, and Shelf Life Testing.

The results from these tests demonstrate that the technological characteristics and performance criteria of the Metacross RX are adequate for the intended use of the device and that the device can perform in a manner equivalent to devices currently on the market with the same intended use.

Biocompatibility:

To demonstrate the biological safety of the body-contacting materials and substantial equivalence of the Metacross RX to the predicate devices, the following biocompatibility testing was performed in accordance with ISO 10993-1.

Cytotoxicity, Sensitization, Intracutaneous reactivity (irritation), Systemic toxicity (acute), Pyrogenicity, Hemocompatibility (thrombogenicity, hemolysis, and immunology), and Genotoxicity (bacterial gene mutation assay, *in vitro* mammalian genotoxicity assay, and *in vivo* cytogenetics assay)

The results from these tests demonstrate that the Metacross RX is biocompatible for its intended use similar to the predicate devices.

Conclusions:

The Metacross RX met all the predetermined acceptance criteria of design verification and validation as specified by applicable standards, guidance, test protocols and/or customer inputs. The Metacross RX PTA Balloon Dilatation Catheter is substantially equivalent to legally marketed predicate devices.