Beta-Cath™ 3.5F System Intended Uses

The Beta-Cath™ 3.5F System is intended to deliver beta radiation to the site of circumferential Coronary Intervention (PCI) for the treatment of in-stent restenosis in native coronary arteries with discrete lesions (treatable with a 20 mm balloon for the 30mm and 40mm Systems and injury areas up to 40mm for the 60mm System) in a reference vessel diameter ranging from 2.7 mm to 4.0 mm.

Contraindications

1. Unprotected left main disease (>50% narrowing).
2. Patients in whom anticoagulant therapy is contraindicated.

Warnings

1. Every attempt should be made to avoid restenting of the target lesion to minimize the risk of thrombosis.
2. Delivery Catheter & Source Train Placement

   • Use of an internal Mammary (IM) Artery Guide Catheter may impede the path of the ACTIVE Source Train and may cause unintentional exposure of radiation and/or unintended results.

   • Vessel injury may result from the improper use of the Delivery Catheter. Follow the enclosed directions carefully. When the Delivery Catheter is in the body, it should be manipulated only under fluoroscopy. Never advance or withdraw the Delivery Catheter against resistance without first determining the reason for the resistance under fluoroscopy.

   • Failure to correctly position the Source Train at the injury site may underexpose the targeted treatment area and expose tissue to radiation beyond the intended treatment to unintentional radiation. Exceeding the prescribed radiation treatment time will result in a higher than intended dose. Migration or improper location of the Source Train may cause unintentional radiation exposure to occur. The effect of unintentional radiation exposures and higher than intended doses are unknown.

   • Do not over-tighten the hemostatic valve as this may damage the Delivery Catheter and impede the path of the Source Train and may cause unintentional exposure of radiation and/or unintended results.

   • Upon return of the Radiation Source Train, failure to open the hemostatic valve may prevent the Radiation Source Train from returning to the delivery system and may result in unnecessary radiation exposure to the patient or personnel.

   • Failure to comply with the specific use of the Transfer Device controls may result in injury or unintended radiation exposure. Radiation is emitted from the Transfer Device when the Radiation Sources are in the Source Chamber. To minimize hand dose, the Transfer Device is designed to be held on the underside and may also be set down when appropriate.

Intravascular Radiation Procedure

1. If, at any time, a Survey Meter reading of the Transfer Device, Delivery Catheter, Fluid Collection Bag, or Procedure Room making sure the fluid suction is off. If the reading is not within the acceptable baseline range or background range there may potentially be a misplaced source; refer to the Emergency Source Recovery Procedure in the System Instructions for Use.

   • UNDER NO CIRCUMSTANCES should an individual attempt to remove the Radiation Source Train from the Beta-Cath™ 3.5F System, grasp the catheter directly with hands, cut the source with his/her fingers, because unintentional radiation exposure and injury may result. Required equipment is provided for this purpose in the Response Kit.

   • Should breach of Source Train containment occur: Notifies the personnel assigned to the incident.

   • Follow institutional procedures regarding personnel allowed to enter or leave the room until the source is contained.

   • Individuals involved in source recovery should wear disposable gloves, an extremity dosimeter on the hand expected to receive the highest dose and a whole body dosimeter on the front of the body between the neck and the waist.

Precautions

1. The Beta-Cath™ 3.5F System is designed to be used by a team of appropriately trained personnel. At a minimum, this team should include a cardiologist, radiation oncologist, and medical physicist.

Beta-Cath™ 3.5F System Preparation

1. Prior to any procedure, the equipment should be thoroughly examined to verify the proper function and integrity of the system.

2. Use the Delivery Catheter and Procedure Accessory Pack before the expiration date noted on the package. Verify that the sterility of the devices has not been compromised by assuring the package integrity has been maintained. The Delivery Catheter and Procedure Accessory Pack items are intended for single use. Do not re-sterilize and/or reuse these items.

3. Do not use the Delivery Catheter if there is evidence of damage. If the Delivery Catheter Integrity Test detects a breach of catheter integrity, or restricted movement of the Source Train, note the observation and return the Source Train to the Transfer Device. Return the Delivery Catheter to Best Vascular, Inc. Prepare another Delivery Catheter for use.

4. Handle the Transfer Device carefully and do not use if dropped. Do not use the Transfer Device if the controls and indicators are not functioning correctly or the LED light test is not observed. Do not begin a procedure if the Low Battery light is blinking. If the Low Battery Indicator starts blinking during a procedure, there will be enough battery power to complete the procedure.

5. Do not use saline as a hydraulic fluid in the Transfer Device; corrosion may occur.

6. The Transfer Device is not sterile. A sterile bag is provided to maintain a sterile field during the procedure. Always reserve at least 10 ml of sterile water for the return of the Source Train to prevent unintentional radiation exposure.

7. Use Caution when connecting the Proprietary Connector to the Delivery Catheter. The Proprietary Connector of the Delivery Catheter is no longer sterile once disconnected from the Transfer Device.

8. Use care when attaching components to the Transfer Device to ensure that the Sterile Bag does not get pinched in the process.

   • Ensure a sufficient amount of sterile water-filled syringes are available before beginning catheter treatment. Always reserve at least 10 ml of sterile water for the return of the Source Train to prevent unintentional radiation exposure.

   • Ensure that the Gate Control Switch is completely closed, as incomplete closure may render the Gate inoperable.

Intravascular Radiation Procedure

1. Utilize a manual Blood Pressure Cuff to monitor patient status during the procedure. Use of this device is restricted to persons licensed in the handling of radioactive materials. Personnel handling this device must follow the regulations, policies and procedures for their institution on the safety and hazards associated with radioactive materials.

   • The individual performing the wipe and leak tests for the Transfer Device is found to be contaminated after scanning, re-sterilize and/or reuse these items.

   • The Beta-Cath™ 3.5F System is designed to be used by a team of appropriately trained personnel. At a minimum, this team should include a cardiologist, radiation oncologist, and medical physicist.

Potential adverse Events

The following adverse events were NOT observed during the clinical investigation, but are recognized as potential adverse events associated with the radiation portion of vascular brachytherapy include (but not limited to):

1. Arrhythmia • Arterial Damage. Dissection or Perforation • Vascular Access Site Hematoma • Contrast-Induced Nephropathy • Neurotoxic Complications • Allergic Reactions • Infection • Stroke • Thrombotic Occlusion • Renal Insufficiency • Coronary Artery Bypass Graft Surgery • Slow Flow-Phenomenon • AV Fistula • Pseudoaneurysm • Left Ventricular Dysfunction • Systemic Atheroembolization • Endocarditis • Distal Embolizations • Vasospasm • Arterial Perforation • Retropertoneal Hematoma

Additional potential Adverse Events associated with the radiation portion of vascular brachytherapy include, but are not limited to:

1. Radiation Induced Malignancy • Aneurexy • Excessive radiation exposure to patient/staff • Arterial Damage • Coronary Artery Bypass Graft Surgery • Thrombosis • Restenosis • Myocardial Infarction • Death

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Best Vascular, Inc. is the exclusive owner, manufacturer and distributor of the Novoste™ Beta-Cath™ 3.5F System.