



# Vascular Brachytherapy for In-stent Restenosis

Available in 30 mm, 40 mm & 60 mm Source Train Lengths

## Beta-Cath™ 3.5F System

- Convenient & Minimal Dosimetry Calculations
- Portable & Reusable
- Short Treatment Time (4-6 min)
- Compatible with 6F Guide & 7F Guide-Extending Catheters



VBT Designed for the Cath Lab



In-Stent Restenosis



Post Brachytherapy

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AFRICA | ASIA | EUROPE | LATIN AMERICA | MIDDLE EAST | NORTH AMERICA

# Beta-Cath™ 3.5F System

- Compatible with 6F guide and 7F guide-extending catheters
- Integrated markers for rapid sizing and positioning
- Beta radiation avoids non-target dosing
- Choose 30, 40 or 60 mm source for preferred margins
- Long-lived Strontium-90 for predictable dwell times

## Vascular Brachytherapy (VBT) Designed for the Cath Lab

### Best™ Radioisotope

- Strontium/Yttrium-90 pure beta-emitting sealed source
- Optimum energy transfer from beta radiation
- Long radioactive half-life allows short, predictable treatment times
- 12-month service cycle
- Proven dose prescriptions and calculated dwell times provided with every device

### Best™ System

- The leader in vascular brachytherapy
- Compatible with 6F guide and 7F guide-extending catheters
- Portable/designed for the cath lab
- Indicator of Source Train (IST) wire aids in Jacketed Radiation Source Train (JRST) selection and simulates a “dummy run” of the JRST to ensure catheter lumen patency
- Multiple fixed length JRSTs available for optimal lesion coverage (30 mm, 40 mm and 60 mm)

### Best™ Procedure

- Short dwell time – keeps you on schedule
- Short treatment time – approximately 4 to 6 minutes
- No facility modifications, e.g. shielding, are required for any Cath Lab to use the system
- Passive centered 3.5F delivery catheter allows perfusion around the delivery catheter
- Dose profile allows clinicians to remain with patient

### Best™ Service

- Best Vascular provides all device service and radioactive source disposal
- Comprehensive on-site VBT education and in-service programs
- Long-life user-exchangeable battery powers device sensors, indicators and interlocks

### Safety Features

- Safety interlocks designed to ensure Jacketed Radiation Source Train containment
- Indicator of Source Train Wire allows rapid catheter positioning, injury sizing for train length selection and JRST lumen testing before irradiation
- Jacketed Source Train allows uniform unit-dosing with vessel conforming, and patented fast hydraulic movement
- All fluids contained in closed system
- Clinician whole body dose per treatment from VBT is less than 5% of the dose received from PTCA fluoroscopy

### Novoste™ Beta-Cath™ 3.5F System Intended Uses

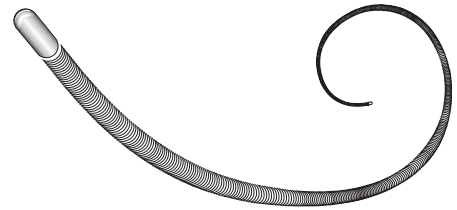
The Beta-Cath™ 3.5F System is intended to deliver beta radiation to the site of successful Percutaneous Coronary Intervention (PCI) for the treatment of in-stent restenosis in native coronary arteries with discrete lesions (treatable with a 20 mm balloon for the 30 mm and 40 mm Systems and injury areas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

## Jacketed Radiation Source Train (JRST)

- JRST series of sealed miniaturized beta sources in a coil “jacket” forms a train, designed to provide even dose distribution
- JRST allows quick and easy position verification
- JRST is designed to maintain flexibility to navigate tortuosity while keeping all sources together
- Multiple fixed length JRSTs available for optimal lesion coverage (30 mm, 40 mm and 60 mm)



Detail of seeds inside the jacket



Jacketed Radiation Source Train (JRST)



### Exchangeable Battery

- An exchangeable battery powers the transfer device to allow for easy exchange of the product's power source

### β-Rail™ 3.5F Delivery Catheter

- Smallest delivery catheter available
- Fits in 6F guide and 7F guide-extending catheters and allows access to distal anatomy
- Single catheter accommodates any source train length
- 1 cm distal rapid exchange type catheter

### Transfer Device

- Portable and reusable
- Stores and delivers JRST
- Uniquely designed for the cath lab



# Beta-Cath™ 3.5F System

Expanding the Capability

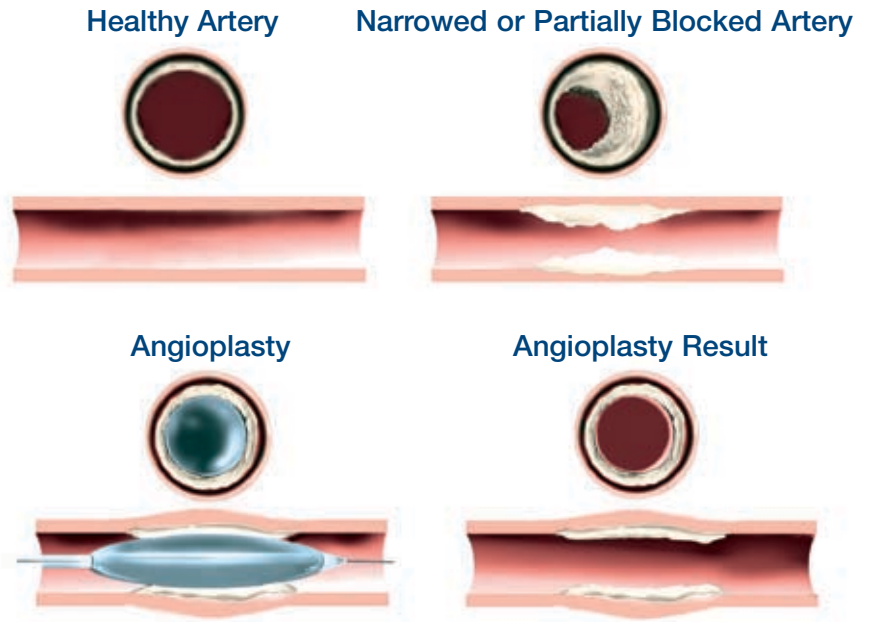
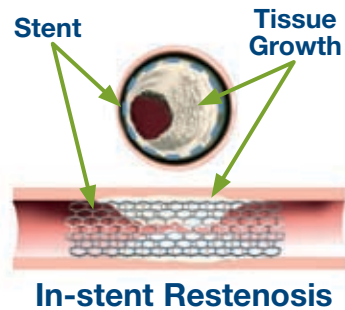
### Patented Hydraulic Delivery

- Provides rapid source train movement
- No source handling or loading required

# Helpful Information for Physicians & Patients

## What is Angioplasty?

Angioplasty involves the inflation of a balloon in a narrowed area of the coronary artery. The balloon compresses the plaque (material causing the narrowing) against the wall of the artery. A successful angioplasty procedure opens the narrowing and improves blood flow through the artery. Stents, which are small wire mesh-like tubes, may be placed at the time of the angioplasty to help keep the artery open. Both angioplasty and stenting cause a small injury to the wall of the artery that usually heals within 3 to 9 months.



## What Causes In-Stent Restenosis?

In-stent restenosis is the re-closure of a coronary artery following stent placement, and is due to the overgrowth of scar tissue during the healing process. In-stent restenosis requires angioplasty and possibly an additional coronary intervention to re-open the artery.

## What is Vascular Brachytherapy?

Vascular Brachytherapy is a procedure designed to reduce the reoccurrence of in-stent restenosis that may occur after stent placement. Several clinical trials have shown that Vascular Brachytherapy following an angioplasty procedure for in-stent restenosis significantly reduces the need for additional procedures. Vascular Brachytherapy uses radiation within the previously narrowed area of the stent to reduce scar tissue formation during the healing process. The radiation is delivered to the area to be treated for a specified amount of time, following the angioplasty procedure.

## What is the Beta-Cath™ System?

The Beta-Cath™ System is designed to deliver low penetrating Strontium 90 beta radiation to the treatment site following angioplasty for in-stent restenosis. The use of Strontium 90 beta radiation with its low penetration allows clinicians to stay in the room during the short treatment. The Beta-Cath™ System has been used very successfully to treat thousands of patients worldwide.

## How is the treatment with the Beta-Cath™ System performed?

The patient will be taken to the Cardiac Cath Lab where the angioplasty or additional coronary intervention may be performed to open the blocked artery. After the procedure is completed, the  $\beta$ -Cath™ Delivery Catheter replaces the angioplasty catheter in the previously narrowed area. Once this catheter is in place, the Strontium 90 radiation source will be delivered to the treatment site through the catheter and will remain in place for approximately 4 to 6 minutes. When the treatment is completed, the radiation sources and the catheter are removed. Treatment with the Beta-Cath™ System adds less than 10 minutes to the total treatment time and **no radiation remains in the body.**



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## Best™ Integrated Brachytherapy Solutions

### Best™ HDR Remote Afterloader

- Provides 20 channels for dose delivery
- Battery back-up in case of power failure and automated wire recovery
- Quick source replacement process — reduces down-time
- Available with Cobalt-60 or Iridium-192 sources. Also, Ytterbium-169 source available soon!



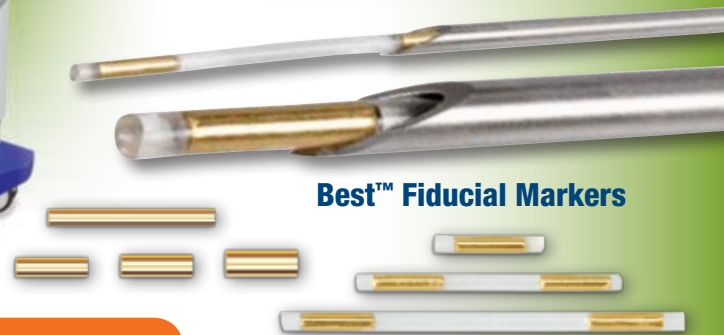
### Best™ Iodine-125 Seed



### Best™ Palladium-103 Seed

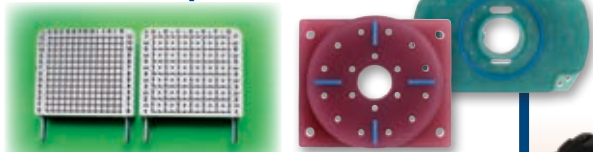


### Best™ Fiducial Markers



Best Medical is the only company that makes custom seeds & strands to your exact specifications — shipped within 24 hours, 7 days a week, sterile & non-sterile!

### Best™ Templates



### Best™ Universal Chair/ Table



### BestMick Applicator

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### Best Kobold Tandem & Ring Applicator



### Best Kobold Fletcher Tandem & Ovoid Applicator



### Best Kobold Henschke Tandem & Ovoid Applicator



### Best™ Flexi Needles



### Best™ Stepper/ Stabilizer



### Best™ Treatment Planning System



### Best™ TargetScan Transrectal Prostate Imaging & Biopsy Ultrasound System



### Best™ Esophageal & Breast Double-Balloon Brachytherapy Applicators



## Best™ Sonalis™ Ultrasound Imaging System

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- 2D, 3D, 4D, Color Doppler, Power Doppler, B-mode, M-mode
- Multi-site imaging: Cardiology, Peripheral Vascular, Gynecology, Urology, Musculoskeletal, Breast, Abdomen
- High resolution large screen display
- Advanced drawing and editing tools



**Advanced Keyboard  
Technology**

\* Certain products are under development and not available for sale currently.

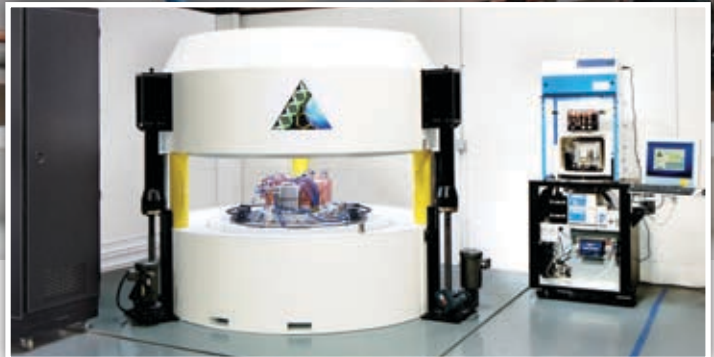
# Best™ *ABT Molecular Imaging*

Best 7.5 MeV Cyclotron BG-75 BioMarker Generator with on-board chemistry & QC for in-house production of  $^{18}\text{F}$ -FDG & other PET agents

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The BG-75 Biomarker Generator integrates a compact mini-cyclotron, kit based micro-chemistry, and automated quality control, simplifying in-house production of  $^{18}\text{F}$ -FDG and advanced biomarkers.

- Push button graphic interface
- Kit based chemistry
- Single or batch dose production
- Final dose delivery to syringe or vial (option)
- Automated quality control testing
- Integrated cyclotron & chemistry self-shielding
- Complete production lab in a 5 x 5 meter area

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