

Vascular Brachytherapy for In-stent Restenosis



VBT designed for the Cath Lab

- Available in 30 mm, 40 mm and 60 mm source train lengths
- Convenient and minimal dosimetry calculations
- Portable and reusable
- Short treatment time
- Compatible with 6F guide and 7F guide-extending catheters

PLEASE VISIT OUR WEBSITE FOR IFU INFORMATION



Featuring:

- 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
- 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

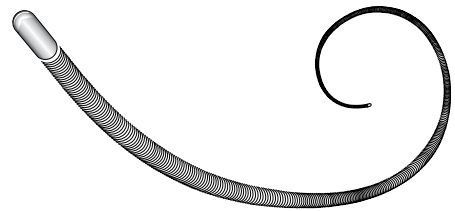
Intended Uses

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.

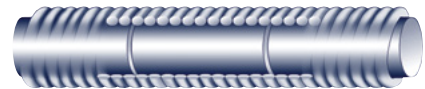


Jacketed Radiation Source Train (JRST)

- 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)



Jacketed Radiation Source Train (JRST)



Detail of seeds inside the jacket



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



EXPANDING THE CAPABILITY

Patented Hydraulic Delivery

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



Frequently Asked Questions

What is Angioplasty?

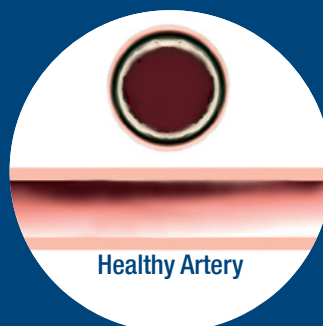
Angioplasty involves the inflation of a balloon in a narrowed area of the coronary artery. The balloon compresses the plaque (material causing the narrowing) against the wall of the artery. A successful angioplasty procedure opens the narrowing and improves blood flow through the artery. Stents, which 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?

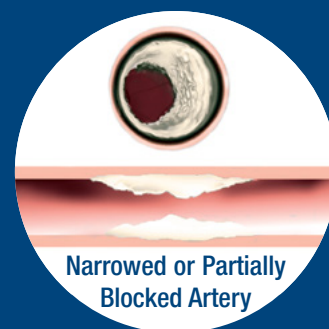
In-stent restenosis is the re-closure of a coronary artery following stent placement, and is due to the overgrowth of scar tissue during the healing process. In-stent restenosis requires angioplasty and possibly an additional coronary intervention to reopen the artery.

What is Vascular Brachytherapy?

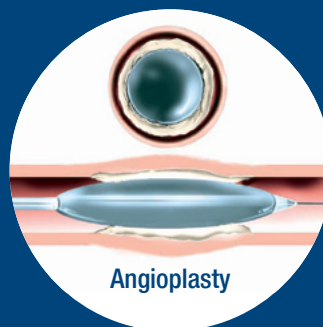
Vascular Brachytherapy is a procedure designed to reduce the reoccurrence of in-stent restenosis that may occur after stent placement. Several clinical trials have shown that Vascular Brachytherapy following an angioplasty procedure for in-stent restenosis significantly reduces the need for additional 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.



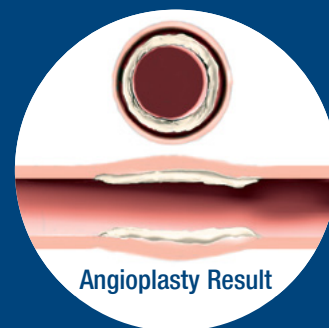
Healthy Artery



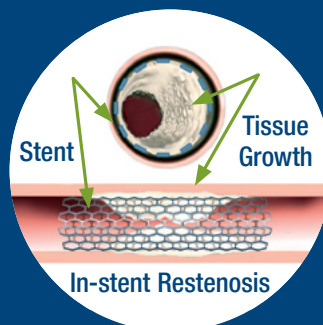
Narrowed or Partially Blocked Artery



Angioplasty



Angioplasty Result



In-stent Restenosis





Best Vascular | Nomos products are currently used in more than 45 heart, vascular, and radiation treatment centers across the United States, with new facilities being added every month.

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 B-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 a short amount of time. 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.*



Cyclotrons of Varying Energies

MODEL	ENERGY	DESCRIPTION
B100	7.5 MeV	<ul style="list-style-type: none"> • Capable of producing: ^{18}FFDG and Na^{18}F • Single or batch dose production • Integrated self-shielded cyclotron, chemistry module and FDG QC module • Complete production lab in a 5 x 5 meter area
BG-95	1-9.5 MeV	Low energy, self-shielded compact system capable of producing: ^{18}F FDG, Na^{18}F , ^{18}F -MISO, ^{18}F FLT, ^{18}F -Choline, ^{18}F -DOPA, ^{18}F -PSMA, ^{13}N and more
Best Cyclotrons	1-3 MeV	Deuterons for materials analysis*
	70-200 MeV	For Proton Therapy*
	3-90 MeV	High current proton beams for neutron production & delivery*
B6-15	1-15 MeV	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
B25	20, 15-25 MeV	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
B25u-35adp	25-35 MeV	Proton or alpha/deuteron/proton, capable of high current up to 1000 Micro Amps, for medical radioisotopes
B35	35 MeV	Proton only system for medical radioisotopes production
B70/70adp	35-70 MeV	Proton only or alpha/deuteron/proton systems, capable of high current up to 1000 Micro Amps, for medical radioisotopes

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

Turnkey Solutions for radioisotope production in nuclear medicine



Best™ Model BG-95

Sub-Compact Self-Shielded Cyclotron for production of ^{18}F FDG, Na^{18}F , ^{18}F -MISO, ^{18}F FLT, ^{13}N ^{18}F -Choline, ^{18}F -DOPA, ^{18}F -PSMA, ^{13}N and more



Best™ Model 70 MeV
Cyclotron at INFN,
Legnaro, Italy

Best[™] nomos[®] Cyber Sonalis[®] Ultrasound System

The Best[™] Cyber Sonalis[®] Ultrasound Imaging System provides superior visualization of HDR, LDR, RF or Cryosurgical procedures. Our patented SimulView[™] Technology provides simultaneous "live" views of the prostate in both planes, thereby increasing treatment accuracy and precision.



*Certain products shown are not available for sale currently.

Additional Features

- ✓ Capable of supporting over 20 different probe configurations, this system can be used in almost every discipline
- ✓ 21.5" touch screen technology
- ✓ Superior HD image resolution for improved procedure accuracy, speed and physician confidence level
- ✓ Patented probe design
- ✓ Sagittal array provides for 140 mm length of view encompassing the bladder, prostate and perineal tissue
- ✓ Advanced modular software design provides for future upgrade path
- ✓ Convertible to desktop or portable without losing any functionality
- ✓ Dual battery backup built-in to protect from power loss

Sonalis[®] Transducers

We offer probes for the most common types of procedures and imaging, all with the enhanced image quality and high resolution that you would expect from the BEST name in ultrasounds!

8L2A Linear Array



12L5A Linear Array



14L3 Linear Array



15LW4 Linear Array



15LA Linear Array



15L4A Linear Array



16L5 Linear Array



8V3 Phased Array



4V2A Phased Array



5C2A Curved Array



9MC3 Curved Array



8EC4A Endocavity



XY-BI-Plane Phased Array



10EC4A Endocavity



10BP4 Bi-Plane



8BP4 Bi-Plane



8TE3 Trans-esophageal



Pedoff



16HL7 High Frequency Linear Array



Integrated Brachytherapy Solutions

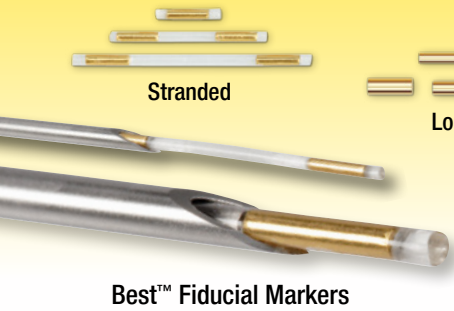
Best Medical is the only company that makes custom seeds and strands to meet your exact specifications—shipped within 24 hours, 7 days a week, sterile and non-sterile!

You don't go to a shoe store and cut your feet to fit the shoe they have in stock—then why compromise when it comes to improving the clinical outcome for your patient?



Best[™]
medical international

A TEAMBEST GLOBAL COMPANY



Stranded

Loose

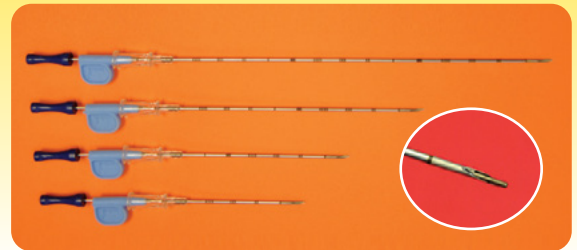
Best™ Fiducial Markers



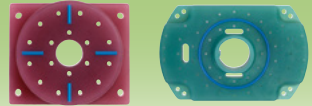
Best™ Iodine-125 Seed



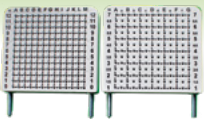
Best™ Palladium-103 Seed



Best™ Localization Needles with I-125 Seeds



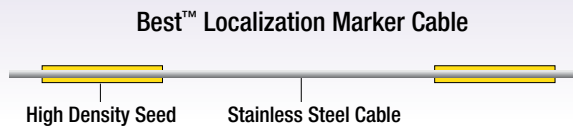
Best™
 Templates



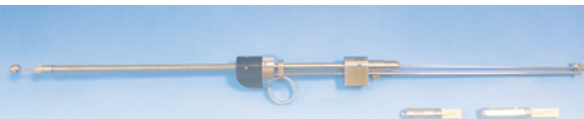
Best™
 Treatment
 Planning
 System



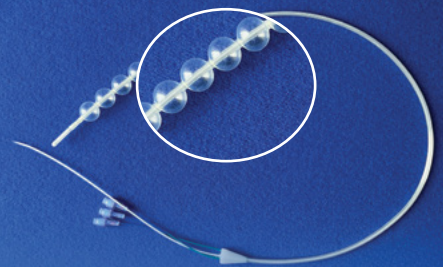
Best™ Localization Marker Ribbon



Best™ Localization Marker Cable



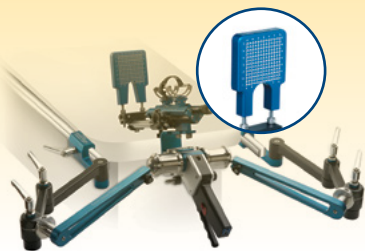
BestMick Applicator and 10/15/20/25 Cartridges



Best™ Esophageal Brachytherapy Applicator



Best™ Breast Double-Balloon
 Brachytherapy Applicator



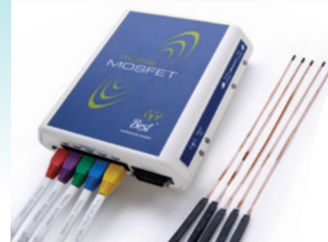
Best™ Stepper/Stabilizer



Best™ HDR
 Remote
 Afterloader

*For all radioactive
 sources*

mobileMOSFET Wireless
 Dosimetry System



Portable
 Dosimetry
 System

