

# Best<sup>®</sup> medical *international*

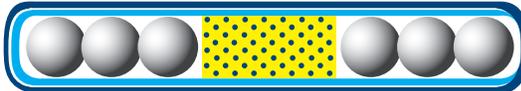
## Radioactive Seeds



Best<sup>®</sup> Iodine-125 Seed



Best<sup>®</sup> Palladium-103 Seed



healthcare for everyone  
**TeamBest<sup>®</sup>**  
Your True Partner

**Best Medical can  
provide any standard  
or customized  
configuration made  
to your exact  
specifications, sterile  
or non-sterile,  
shipped within 24  
hours — worldwide!**

## **Contact us:**

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**Fax: 703-451-5228**

**[www.bestmedical.com](http://www.bestmedical.com) • [www.teambest.com](http://www.teambest.com)**



## Mission Statement

*Everyone deserves the best health care. Our goal is to work with medical professionals to provide the Best products and services. As a leader in innovative technology, our mission is to uphold our reputation for excellence in the health care field by developing, manufacturing, and delivering cost-effective, high quality products to benefit patients around the world.*

## Corporate Values

*Fulfilling our mission requires a dedicated employee team—one that is committed to uncompromised quality and safety, and fostering a sense of pride in the company.*

## Best employees will:

- *Honor the dignity and uniqueness of each person, including fellow employees, customers, distributors, and vendors, through their actions, words, and behavior. They will treat others with respect, as they would wish to be treated.*
- *Embrace the spirit of cooperation and teamwork for which Best Medical is known, an environment which supports and recognizes effort and results.*
- *Promote and practice open and honest communication at all times.*
- *Listen to others and remain open to suggestions at all times, as we focus on achieving excellence in our work.*
- *Attract and retain leaders with exceptional abilities and integrity.*
- *Ensure all resources are managed in a responsible and effective manner.*

# Best ADVANTAGE

- Best Medical International is the **ONLY** supplier of Iridium-192 and Gold-198 seeds.
- We are the first and only provider of Iridium-192 in nylon ribbons in a wide range of activities.
- We are the first and only company to provide custom service for Gold-198 permanent implants, as well as a wide range of activities.
- We are the first and only company that will call our customers the morning after shipping to inform them of mode of transportation and expected arrival time.
- We can supply Ir-192, Au-198, Pd-103, I-125 and Brachytherapy accessories on a single Purchase Order.
- We ship most materials within 24 hours of receipt of the order.

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### Best® Iodine-125 Seed – Model #2301

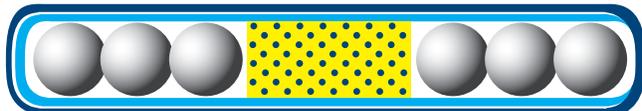


#### Patented Double Wall Best® Iodine-125 Source

##### Model # 2301

Marker	Tungsten
Dose Rate Constant	NIST 1999 with 2000 Modification
External Length	5 mm (nominal) 1.02 cGy/hr/U
External Diameter	0.8 mm (nominal)

### Best® Palladium-103 Seed – Model #2335



#### Patented Double Wall Best® Palladium-103 Source

##### Model # 2335

Marker	Tungsten
Dose Rate Constant	NIST 1999 with 2000 Modification
External Length	5 mm (nominal) 0.69 cGy/hr/U
External Diameter	0.8 mm (nominal)

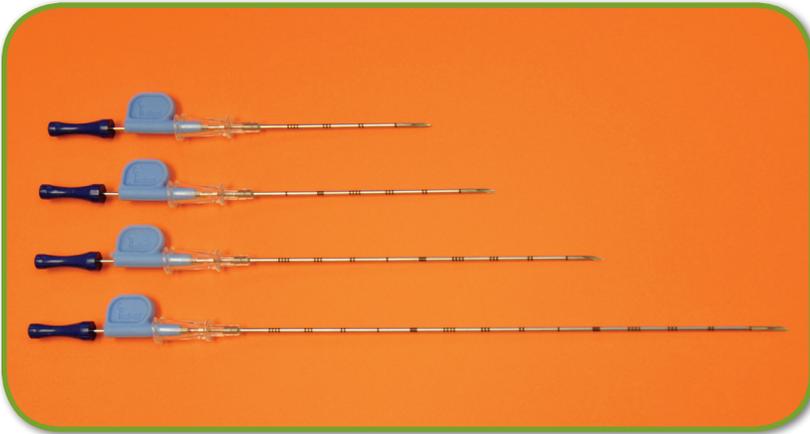
- Patented double wall titanium encapsulation with uniform wall thickness
- Tungsten Marker—excellent images of source in ultrasound, X-ray, CT, MRI, and fluoro—far superior to other commercially available sources
- Source calibration traceable to NIST
- Sources and spacers are the same length (5.0 mm nominal) and diameter (0.8 mm nominal), fitting Mick cartridge snugly
- Custom-made high quality spacers and Mick cartridges provided at no cost
- Sources can be provided as loose seeds; loaded in needles with spacers, sterile; loaded in strands, sterile; preloaded in Mick cartridges
- For an update on AAPM Task Group No.43 Report (TG43) on the dosimetry of Best® Seeds, please see references 4 (Best® I-125) and 5 (Best® Pd-103)
- **For technical questions, please contact [info@bestmedical.com](mailto:info@bestmedical.com) or call 1-703-451-2378**

#### References:

- 1) A.S. Meigooni, D.M. Gearheart, and K. Sowards, Med. Phys. 27, 2168-2173 (2000)
- 2) S.W. Peterson and B. Thomadsen, Brachytherapy 1, 110-119 (2002)
- 3) R. Nath and N. Yue, Brachytherapy, 1, 102-109 (2002)
- 4) M.J. Rivard, B.M. Coursey, L.A. DeWerd, et al., Med.Phys. 31, 633-674 (2004)
- 5) M.J. Rivard, W.M. Butler, L.A. DeWerd, et al., Med.Phys. 34, 2187-2205 (2007)

# 24hours

Available from Best® within 24 hours:  
Best® I-125 and Pd-103 seeds in sterile packing



## Breast Localization Needles with Iodine-125 Seeds

Part #	Description
10172-8	5 cm Length
10172-11	7 cm Length
10172-02	10 cm Length
10172-05	15 cm Length

- Available in all ranges of seed activities (0.08 to 0.4 mCi) with a shelf life of 90 days
- Needles are supplied sterile and are individually packaged and shielded
- Best localization needles with Iodine-125 seeds are FDA approved

## I-125

### Single Needle with Single Source Part Numbers

Part #	Description
10172-2	I-125 Loose Source (single) in 18 Gauge x 10cm Needle
10172-5	I-125 Loose Source (single) in 18 Gauge x 15cm Needle
10172-8	I-125 Loose Source (single) in 18 Gauge x 5cm Needle
10172-11	I-125 Loose Source (single) in 18 Gauge x 7cm Needle
10172-14	I-125 Single Source in Strand in 18 Gauge x 5cm Needle
10172-17	I-125 Single Source in Strand in 18 Gauge x 7cm Needle
10172-20	I-125 Single Source in Strand in 18 Gauge x 10cm Needle
10172-23	I-125 Single Source in Strand in 18 Gauge x 15cm Needle

## References:

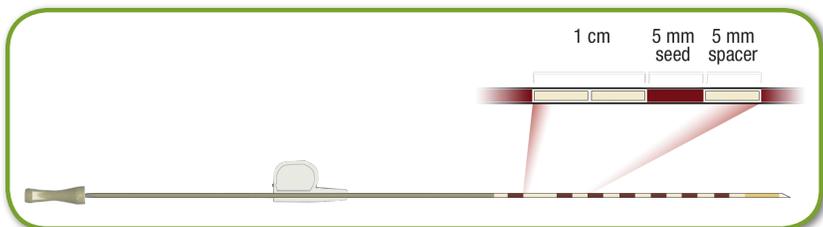
- 1) J.W. Jakub, R.J. Gray, A.C. Degnim, et al., The American Journal of Surgery, 199, 522–528 (2010)
- 2) L.T. Dauer, C. Thornton, D. Miodownik, et al., Health Physics, 105(4), 356–365 (2013)
- 3) NRC Breast Seed Localization Licensing Guidelines, NRC doc vers. March 27, 2015 <http://www.nrc.gov/materials/miau/med-use-toolkit/seed-localization.html>

# 24hours

Available from Best<sup>®</sup> within 24 hours:  
Best<sup>®</sup> I-125 and Pd-103 seeds in sterile packing

**I-125****Sterile & Non-Sterile Seed Products**

Part #	Description
10113	Loose (non-sterile)
10113-21	Loose (sterile)
10165-3	Strands in Needles (in plastic tray)
10165-4	Loose Sources in Needles (in plastic tray)
10165-17	Loose and Stranded Sources in Needles (in plastic tray)
10165-1	Stylets in Tubes
10113-23	Cartridge with Sources (non-sterile)
10113-11	Cartridge with Sources (sterile)
10176-13	Best Cartridge with Sources
10117-5	Reusable Cartridges with Sources
10120-1	Strands in Needles (in Best new tray)
10120-3	Loose Sources in Needles (in Best new tray)
10120-5	Loose and Stranded Sources in Needles (in Best new tray)

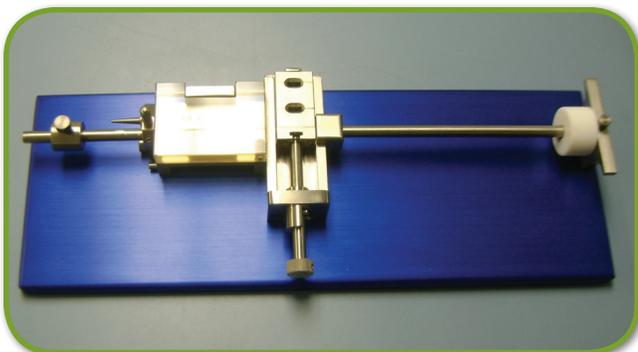
**Best® Seeds Loaded in Cartridges****Best® Container (Stainless Steel)****5 mm Seeds / 5 mm Spacers**

# 24hours

Available from Best® within 24 hours:  
Best® I-125 and Pd-103 seeds in sterile packing



- Patented double wall titanium encapsulation with uniform wall thickness
- Best<sup>®</sup> custom strand (per your prescription)
- Best<sup>®</sup> standard strand (10 seeds/strand spaced 1 cm apart)
- Best<sup>®</sup> real-time strand/needle (use Best<sup>®</sup> loader in the OR)
- Best<sup>®</sup> seeds and spacers in pre-loaded needles
- Cartridges
- Loose seeds



**Best<sup>®</sup> Loader for Seeds/Spacers in Needles/Strands**

Pd-103	
Sterile & Non-Sterile Seed Products	
Part #	Description
15113	Loose Pd-103 Source (non-sterile)
15113-11	Vial with Pd-103 Sources in a Pouch (sterile)
15165-1	Pd-103 Strand (in a pack)
15165-4	Needle with Pd-103 Loose Sources Assembly (in a plastic tray)
15165-9	Needle with Pd-103 Sources in Strands Assembly (in a plastic tray)
15165-11	Needle with Pd-103 Loose Sources and Strands Assembly (in a plastic tray)
15113-13	Pd-103 Sources in Cartridge (non-sterile)
15113-14	Pd-103 Sources in Cartridge (sterile)
15180-1	Needle with Pd-103 Loose Sources Assembly (in Best tray)
15180-3	Needle with Pd-103 Sources in Strands Assembly (in Best tray)
15180-5	Needle with Pd-103 Loose Sources and Strands Assembly (in a tray)

## 24hours

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Best<sup>®</sup> I-125 and Pd-103 seeds in sterile packing

<b>Iridium-192</b>	
<b>Part # 118</b>	
<b>Ir-192 Seeds in Nylon Ribbons</b>	
Range of Activity	0.1 to 10 mg Raeq per Seed
Seed Dimension	3.0 mm Long and 0.5 mm Diameter
Emission Energy	0.37 MeV (average) Gamma Energy
0.1 mm Diameter	Core of 30% Ir & 70% Pt Surrounded by 0.2 mm Thick Stainless Steel Wall
Physical Characteristics	1. Half-life 74.3 Days 2. HVL (50% attenuation) About 3 mm Lead 3. Specific Gamma Ray Constant 4.6 R cm <sup>2</sup> /mCi/hr
<b>Custom Spacing Available.</b>	

<b>Gold-198</b>	
<b>Part # 557</b>	
<b>Au-198</b>	
Range of Activity	0.1 to 10 mCi per Seed (4.7 mCi of Gold-198 is Equal to 1 mCi of Radon)
Seed Dimension	2.5 mm long and 0.8 mm Diameter
Emission Energy	420 keV (average) Gamma Rays
Construction	Metallic Gold Pellet Encapsulated in Platinum
Physical Characteristics	1. Half-life 2.7 days 2. HVL (50% attenuation) About 4 mm Lead 3. Specific Gamma Ray Constant 2.35 R cm <sup>2</sup> /mCi/hr
<b>Custom Activities Available.</b>	

- We are the only one to provide comparative calibration data traceable to NIST, University of Wisconsin, K&S Associates, and M.D. Anderson Hospital, Houston, TX, for the past 15 years — which indicates excellent quality control.
- We are the only supplier of LDR Iridium-192 and Gold-198 seeds.
- We are the only provider of Iridium-192 in nylon ribbons in a wide range of activities.
- We are the only one to provide custom services for Gold-198 permanent implants, as well as a wide range of activities.
- We are the first and only one to call our customers the morning after shipping to inform them of mode of transportation and expected arrival time.

**24hours**

Available from Best® within 24 hours:  
Best® I-125 and Pd-103 seeds in sterile packing

