

# ACHIEVE MORE WITH EUS



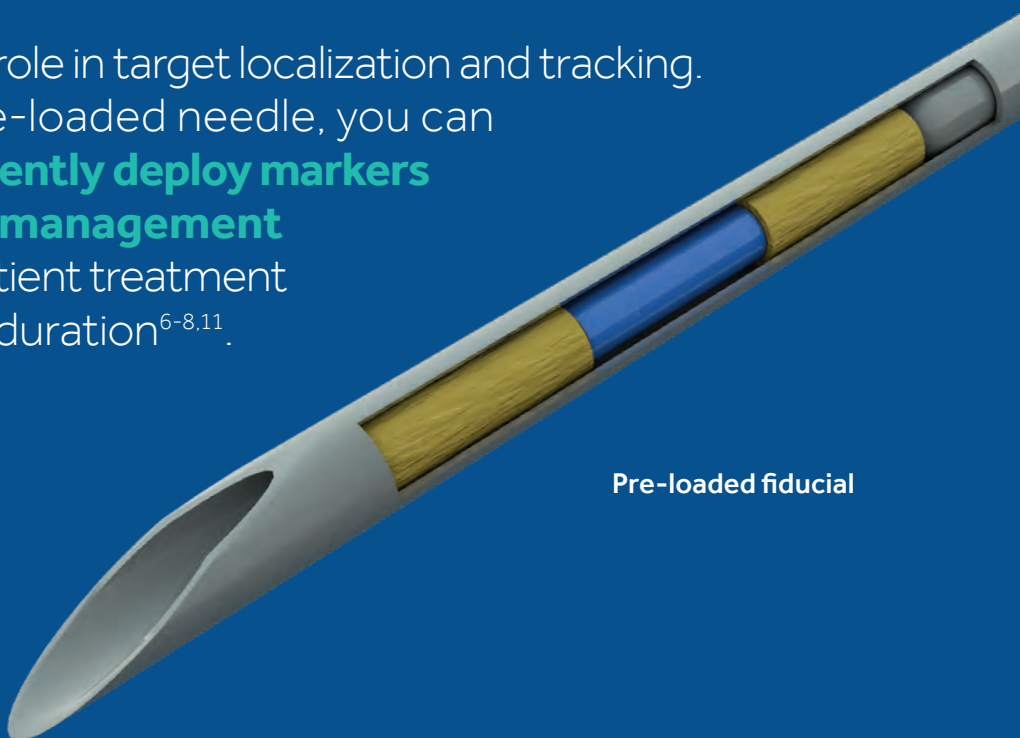
Beacon™ FNF Needle  
Two fiducial markers. One efficient system<sup>8</sup>.

**Medtronic**  
Further. Together

# TWO FIDUCIAL MARKERS. ONE EFFICIENT SYSTEM.<sup>8</sup>



Fiducial markers play a vital role in target localization and tracking. With the Beacon™ FNF pre-loaded needle, you can **confidently and independently deploy markers to help optimize patient management** by potentially expediting patient treatment and reducing hospital stay duration<sup>6-8,11</sup>.



Pre-loaded fiducial

## The Beacon™ FNF needle

- Pre-loaded with **two solid gold fiducial markers** available in two sizes — 22 Ga (0.43 mm x 5 mm) and 19 Ga (0.75 mm x 5 mm)<sup>1-2</sup>
- Knurled (ridged) exterior design intended to **reduce migration**<sup>3-6</sup>
- Physician deployment indicator provides **visual and tactile feedback** for the confident, independent deployment of each fiducial marker<sup>6-7</sup>

## Flexibility meets efficiency

- The Beacon™ EUS delivery system **enables interchangeability** between the SharkCore™ FNB needles and FNF needles, allowing you to place the markers and acquire tissue samples in the same procedure<sup>8</sup>
- **Needles are pre-loaded** with fiducials, eliminating the difficulty associated with manual loading<sup>6</sup>

## Clear visualization

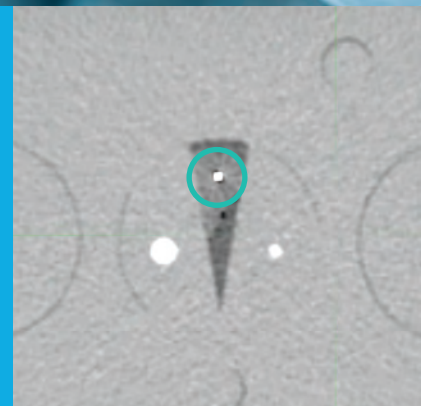
- Fiducial markers generate a **clear echogenic response** for simplified target localization<sup>6</sup>
- Markers can be **clearly visualized across imaging modalities**, including CT, x-ray, and kV<sup>9</sup>
- Small artifact in relation to the **size and shape of the device can be visualized with MRI**, assisting in patient treatment planning<sup>10</sup>

## Enhanced procedural safety

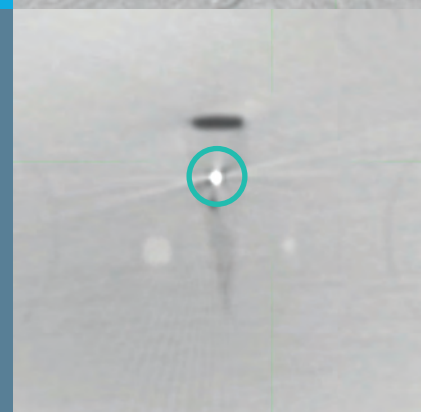
- **Reduced exposure** to unprotected sharps decreases risk of needlestick injury<sup>7,11,13</sup>



22 Ga fiducial marker visible with CT imaging



22 Ga fiducial marker visible with CBCT imaging



Close up of fiducial marker



# TAKING FIDUCIAL PLACEMENT FURTHER, TOGETHER



## US Beacon™ FNF needle product list

Code	Description	Unit of Measure
DSF-19-01	Beacon™ EUS Delivery System with FNF Pre-loaded 19 Gauge	Each
DSF-22-01	Beacon™ EUS Delivery System with FNF Pre-loaded 22 Gauge	Each
F-19-05	Beacon™ EUS FNF Pre-loaded 19 Gauge Needle	Box of 5
F-22-05	Beacon™ EUS FNF Pre-loaded 22 Gauge Needle	Box of 5

## Reimbursement code for the Beacon™ FNF needle

CPT <sup>912</sup> Code	Code Descriptor
43253	Esophagogastroduodenoscopy, flexible, transoral; with transendoscopic ultrasound-guided transmural injection of diagnostic or therapeutic substance(s) (eg, anesthetic, neurolytic agent) or fiducial marker(s) (includes endoscopic ultrasound examination of the esophagus, stomach, and either the duodenum or a surgically altered stomach where the jejunum is examined distal to the anastomosis)
A4648*	Tissue marker, implantable, any type, each

\* Not separately reimbursed under the Outpatient Prospective Payment System (OPPS)

Medtronic is committed to partnership with healthcare professionals and the GI community as a whole.

Contact your Medtronic representative for more information, or visit [medtronic.com/gi](http://medtronic.com/gi)

**Caution:** Federal law restricts this device to sale by or on the order of a licensed healthcare practitioner. Rx only.

**Risk Information:** Beacon™ fine needle pre-loaded fiducial system: Procedural risks associated with gastrointestinal endoscopy include, but are not limited to: perforation, hemorrhage, aspiration, hypotension, respiratory depression or arrest, cardiac arrhythmia or arrest, infection/fever, bacteremia, allergic reaction to medication, damage to blood vessels, nerve damage, tumor seeding of the needle tract, and acute pancreatitis. Those associated with EUS fiducial placement include, but are not limited to: improper fiducial placement, fiducial migration, infection/fever, allergic reaction, local inflammatory foreign body response, minor bleeds, pain, pancreatitis, and needle fracture requiring intervention for removal. Please refer to the product user manual for detailed information.

**References:** 1. PN1006697 (A) Fiducial. 2. PN1006667 (B) Needle Assy - FNF. 3. Pouliot, Jean, et al. "(Non)-migration of radiopaque markers used for on-line localization of the prostate with an electronic portal imaging device." *International Journal of Radiation Oncology\* Biology\* Physics* 56.3 (2003): 862-866. 4. <http://www.civco.com/ro/About-Us.htm>. 5. <http://www.civco.com/ro/fiducial-markers/standard-gold-soft-tissue-marker/gold-soft-tissue-markers-FMC12.htm>. 6. TR-20015 REV 01 - page 4.9 dated 07.09.2015 (Data on file). 7. TR-20018 REV 01 -page 2 dated 09.01.2015 (Data on file). 8. Choi, J. H., Seo, D. W., Do Hyun Park, S. K. L., & Kim, M. H. (2014). Fiducial placement for stereotactic body radiation therapy under only endoscopic ultrasonography guidance in pancreatic and hepatic malignancy: practical feasibility and safety. *Gut and liver*, 8(1), 88-93. 9. TR-20019 rev 01 - page 5 dated 09.11.2015 (Data on file). 10. Shellock Covidien Fiducial Report Page 18 dated 01.18.2015 (Data on file). 11. Kothari S, Kothari T, et al. 234, Endoscopic Ultrasound (EUS)-Guided Fiducial Placement for Stereotactic Body Radiotherapy (SBRT): First Global Experience with a New 22-Gauge "Pre-loaded" EUS Fiducial Needle *The American Journal of Gastroenterology*, vol 110, Supplement 1 October 2015. 12. CPT is a registered trademark of the American Medical Association. No fee schedules, basic units, relative values, or related listings are included in CPT. The AMA assumes no liability for the data contained herein. Applicable FARS/DFARS restrictions apply to government use. 13. FDA 510(K) K152586\_Beacon Fine Needle Fiducial System, dated December 30, 2015.

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