Proprietary, synthetic bio-absorbable polymer seed encapsulation design

AnchorSeed®

- Designed to:
  - Improve loose seed fixity
  - Reduce misalignment
  - Minimize migration and loose seed displacement

- Unique polymer seed encapsulation
  - Bio-absorption occurs in 182 – 238 days
  - Nominal diameter is approximately 0.97mm – a 21% increase compared to an 0.8 mm uncoated seed
    - Four rings; one covering each end cap & two smaller medial rings
    - Rings are connected by two longitudinal ribs that run opposite each other along the length of the lateral surface

- Improved loose seed fixity
  - Greater surface area of each individual seed
  - Capable of anchoring individual seeds into the correct position
  - Increased confidence in seed placement and intraprostatic tissue fixity
- **Reduced misalignment**
  - Designed to reduce seed drag by creating friction along the seed/needle track interface
  - Physical attributes reduce movement along the needle track
  - Minimizing seed drag may reduce dose to the penile bulb and maximize radiation coverage to the apex of the gland

- **Minimized migration and loose seed displacement**
  - Significant reduction in overall lung and pelvic seed migration from 25% (uncoated) to 4% (coated), (p<0.0001)
  - Measureable reduction in intraprostatic dose variability observed with the coated seeds
  - Significant improvement in implant quality at Day 30 was demonstrated using Radiation Therapy Oncology Group (RTOG) evaluation criteria range

- **In a randomized trial reported by Bowes, et al**
  - AnchorSeeds were found to have a significant anchoring effect that was effective in reducing the number of apical seeds lost because of venous migration

**AnchorSeed® Technology Packaging Options**

- **TheraSeed®** Pd 103 or **AgX100®** I-125 seeds
- Sterile, shielded
  - **AnchorSeed**: 15 seed disposable cartridge with integrated seed counter
  - **AnchorLoad®**: Custom loaded implant needle kits per a physician’s plan

TheraSeed and AgX100 are the foundation for all LDR brachytherapy product presentations. A manufacturers Certificate of Calibration accompanies each order; an additional independent seed assay of 10% is available upon request.

**For specific product information and Instructions for Use, please consult your Theragenics Brachytherapy Specialist or Customer Service.**

**Customer Service**
Phone: 877-444-7333
Fax: 800-458-4303
Email: customerservice@theragenics.com
Hours of Operation: Mon - Fri, 8am - 6pm ET

**Theragenics Corporation**
5203 Bristol Industrial Way
Buford, Georgia 30518
USA

References

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