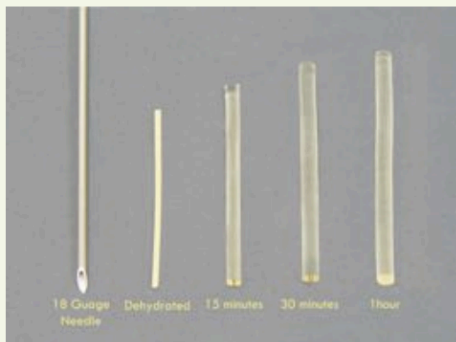


Gelstix™ Nucleus Augmentation



Product Overview:

CE Mark

(3) Independent clinical outcomes study underway

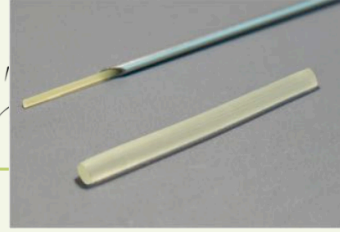
Over 2000 patients treated to date

Reduction in LBP at all follow-up intervals for patients treated in clinical outcomes study

No complications or adverse events noted

courtesy of **REPLICATION**
Medical, Inc

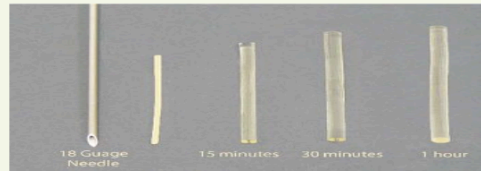
Key Features



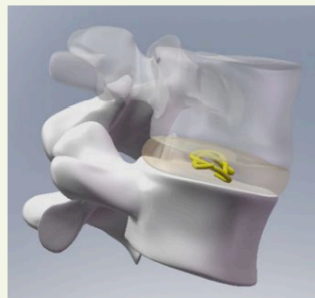
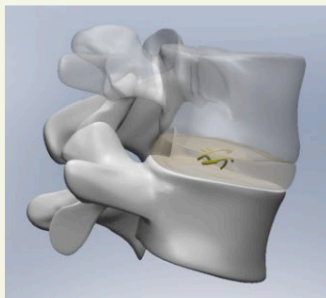
- Implant in its pre-hydrated state is 0.8 mm diameter
- Post Hydration size is 2.5 mm diameter
- 50% hydration at approximately 10 mins
- Volume added is 1 cc/3 implants
- Degenerative disc 5.7 pH
- With Gelstix 6.8 pH

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HPAN Water Content

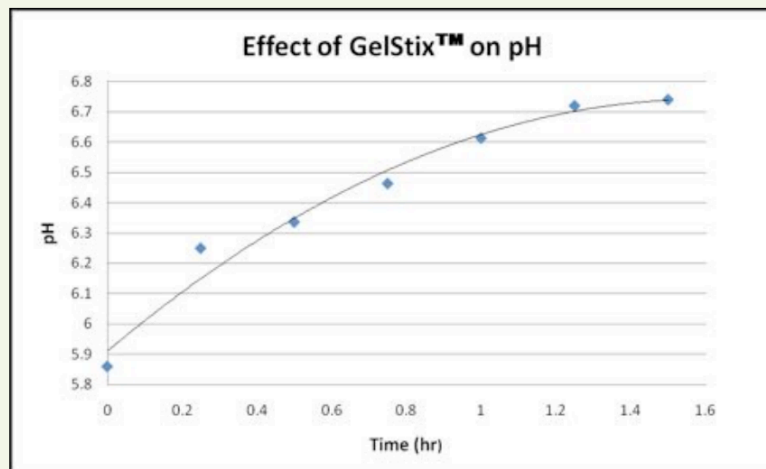


- HPAN 90:
 - softer and deformable
 - permeable to solutes and small molecules
 - higher swelling (90% in isotonic NaCl, 98% in water)



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GelStix & Intradiscal pH



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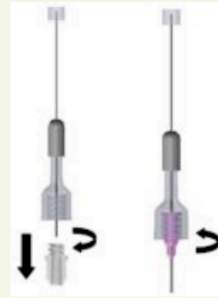
Summary Mode of Action of GelStix™ Nucleus Augmentation

- Restores hydration of the discs
- Reaches full hydration in less than an hour
- Neutralizes acidity associated with DDD
- Biocompatible/biostable
- End point: Reduces pain associated with DDD
- Minimally invasive non-surgical procedure through an 18G spinal needle

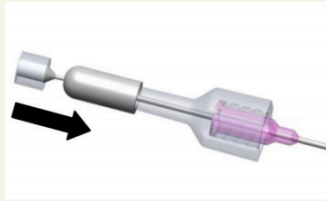
“GelStix™ interrupts the disc degeneration cycle”



1. Position Needle.
Perform Discography (If Desired)



2. Attach Preloaded Gelstix™ Cartridge



3. Push Implant into Needle

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Lumbar technique Ap / lateral technique



Gelstix – Inclusion Criteria

Clinical Study Phase I

- General Indication
 - Back pain +/- leg pain
 - DDD confirmed by MRI/discography
 - Previous microdiscectomy, endoscopic discectomy allowed
 - Disc height < 5mm in some cases
 - Disc bulge
 - Spondy Grade I
 - Referred for Fusion

Clinical Study Phase II

- Narrowed Indication
 - Back pain +/- leg pain
 - DDD confirmed by MRI
 - No previous surgery
 - No spondy
 - Disc height 5mm+
 - Modic I or less
 - Pfirman I-IV
 - Bulge < 3mm

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Patient 661



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Surgical Tips

- Use Only Supplied Needle
- Avoid bending the needle
- If contrast medium is used, plunge remaining fluid from needle
- May use sterile saline to flush needle if lidocaine or other fluids are used
- Test for bends or kinks in needle by removing stylet and replacing **COMPLETELY UNTIL IT BOTTOMS OUT IN NEEDLE** before inserting Gelstix cartridge
- Gelstix swells quickly and must be deployed within 15 seconds after loading
- 18 GAGE Gelstix Supplied Needle has beveled stylet – rotate stylet if resistance is felt
- May use flat 18 gauge stylet to advance Gelstix if it becomes difficult to advance down needle