pfmmedical
Quality and Experience

Suturable Mesh
› DURAMESH™

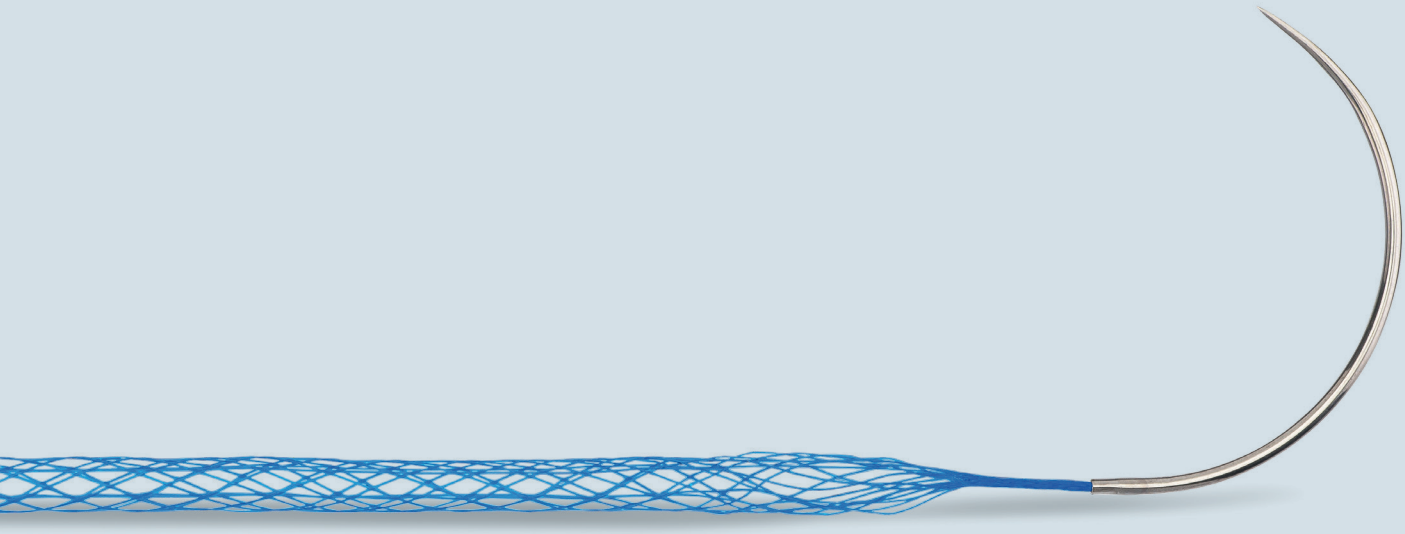
DURAMESH™ is a non-resorbable implant indicated for general soft tissue approximation and/or ligation.

Manufacturer

MSi

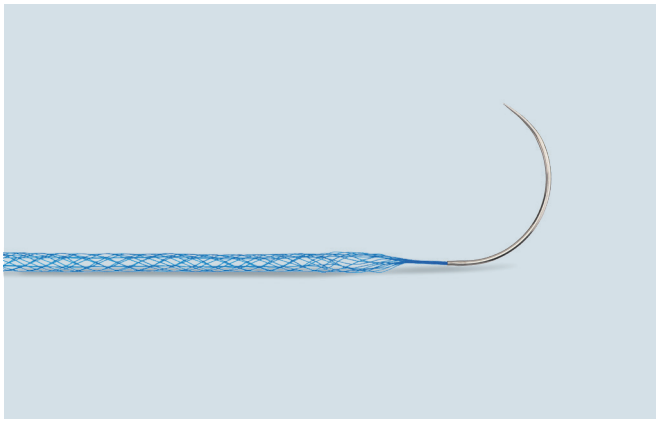
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New: Innovative Suturable Mesh



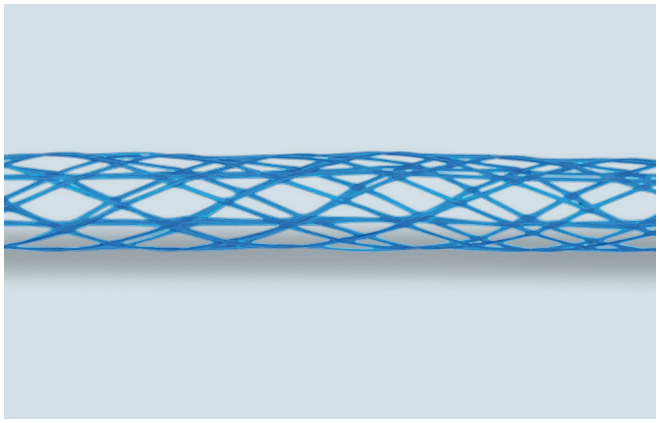
DURAMESH™ is a non-resorbable implant for the purpose of approximating and/or the ligation of soft tissues such as muscle, tendons, ligaments, and fascia. DURAMESH™ distributes forces at the suture-tissue interface, while minimising the amount of implanted foreign material and surgical complexity required for implantation. Suturable Mesh therefore combines the desirable principles of a mesh repair with the placement precision of a suture - DURAMESH™: the Suturable Mesh for stronger, earlier repairs.[1,2]

View



DURAMESH™

Detail



Multifilament

General Details

- **Polypropylene**
- **Light Weight**
- **Multifilament**
- **Non-absorbable**
- **ETO Gas Sterilization**

Indications

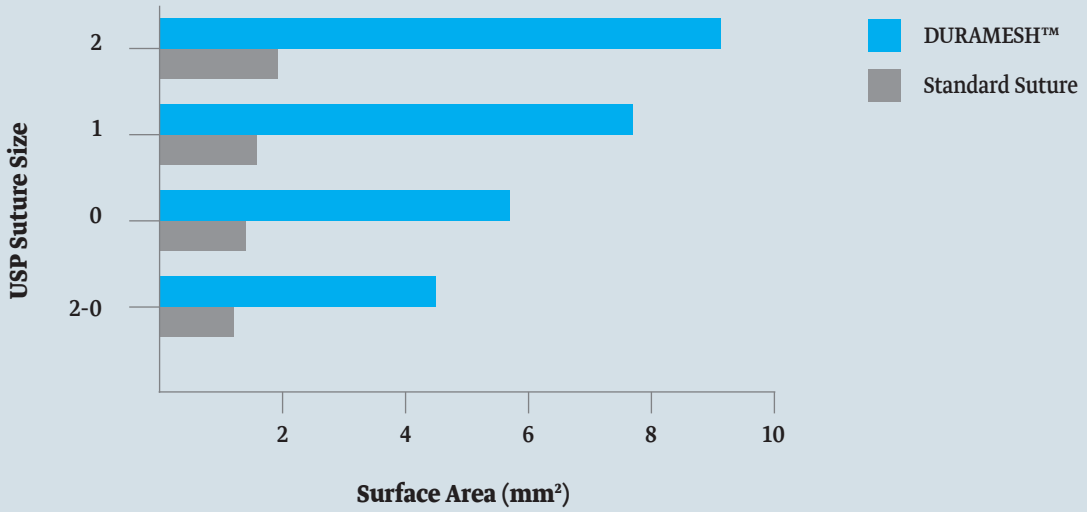
DURAMESH™ Suturable Mesh is indicated for general soft tissue approximation and/or ligation, excluding use in skin and other epithelial tissues.

DURAMESH™ can, for instance, be used for:

- Laparotomy closures
- Open umbilical hernia repairs
- Hiatal hernias
- Inguinal hernias
- Flank hernias
- Trocar site closures
- Flap harvest closures
- Tendon repairs
- Joint capsule closures

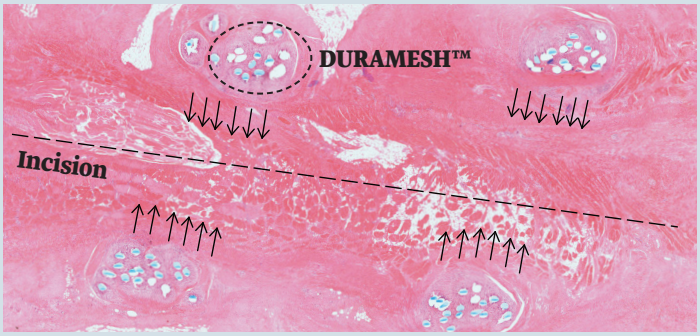
Knowledge

Greater surface area than standard suture



The increased surface area of DURAMESH™ at the suture-tissue interface allows for better distribution of forces than standard suture.

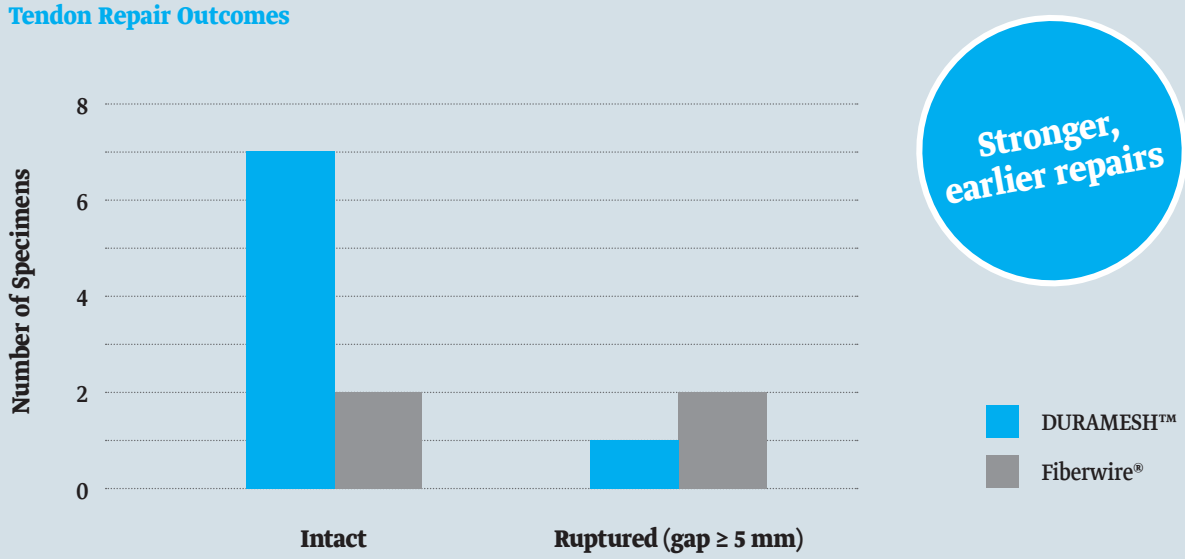
DURAMESH™ flattens to better distribute forces



H and E stains performed at 4 weeks after Porcine Abdominal Wall Closure

Allows fibrovascular ingrowth

Tendon Repair Outcomes

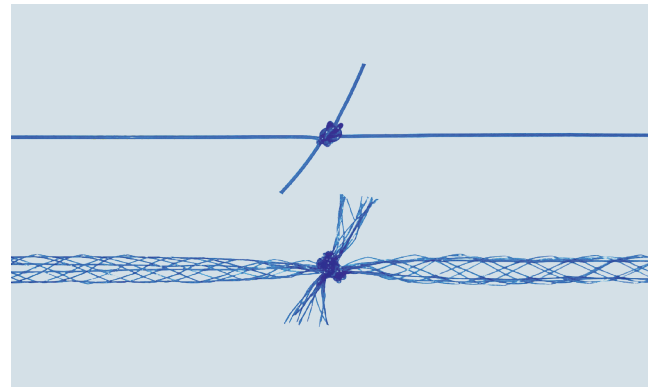


Source: Janes et al., An In Vivo Comparison: Novel Mesh Suture Versus Traditional Suture-Based Repair in a Rabbit Tendon Model. J Hand Surg Glob Online, 2022, 4(1): 32-39

Handling

Easy to handle, use and tie

The handling and use of DURAMESH™ are equivalent to those of a standard suture, requiring minimal to no training. Its novel design allows it to collapse when tied, resulting in a low-profile knot. DURAMESH™'s attached needle provides surgeons with an intuitive solution for targeted mesh placement. All DURAMESH™ sizes are used in the same instances as an equivalently sized standard suture.



Two Square Knots DURAMESH™ 0 vs 0 Monofilament

Benefits

Enhanced biomechanical properties

DURAMESH™ has more surface area than standard suture, higher yield strength, and ultimate strength in flexor tendon repairs.[4]

Better repair strength

The multifilament, macroporous mesh body of DURAMESH™ forms a mesh tube. This structure allows fibrovascular ingrowth during wound healing and therefore increases the strength of the repair.[2,3]

Less gap formation

DURAMESH™'s novel mesh architecture shows less gap formation and more intact repairs compared to standard suture.[3]

Double the repair strength at two weeks

DURAMESH™ repairs were twice as strong as standard suture repairs at two weeks.[3]

Order information

REF	Description	Size (L, Ø)	USP*	Colour Code	Unit
MSP100-5	DURAMESH™ 2-0 Small Needle DR20B	91 cm, Ø 1.5 mm	2-0	Orange	5
MSP200-5	DURAMESH™ 0 Small Needle HR22B	91 cm, Ø 2.6 mm	0	Turquoise	5
MSP201-5	DURAMESH™ 0 Large Needle HR48	91 cm, Ø 2.6 mm	0	Blue	5
MSP300-5	DURAMESH™ 1 Small Needle HR26B	91 cm, Ø 3.9 mm	1	Red	5
MSP301-5	DURAMESH™ 1 Large Needle HR48	91 cm, Ø 3.9 mm	1	Purple	5
MSP500-5	DURAMESH™ 2 Small Needle HR26B	91 cm, Ø 4.1 mm	2	Yellow	5
MSP501-5	DURAMESH™ 2 Large Needle HR50	91 cm, Ø 4.1 mm	2	Green	5

* Does not meet USP for diameter

Literature

1. Wallace et al., Biomechanical Properties of a Novel Mesh Suture in a Cadaveric Flexor Tendon Repair Model. J Hand Surg Am, 2019, 44(3): 208-215
2. Dumanian, Suturable Mesh Demonstrates Improved Outcomes over Standard Suture in a Porcine Laparotomy Closure Model. Plast Reconstr Surg Glob Open, 2021, 9(10): e3879
3. Janes et al., An In Vivo Comparison: Novel Mesh Suture Versus Traditional Suture-Based Repair in a Rabbit Tendon Model. J Hand Surg Glob Online, 2022, 4(1): 32-39
4. Liu et al., Evaluation of hollow mesh augmentation on the biomechanical properties of the flexor tendon repaired with modified Kessler technique. J Orthop Translat, 2020, 20: 80-85

Contact

Should you have any questions our Customer Solutions Team will be glad to assist you.

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