



CHIRAFIX[®]

Knotless Wound Closure Device



CHIRMAX surgical
by Vitrex Medical Group

Knotless Wound Closure Device
CHIRAFIX®
 Quality Efficiency Security

- Knotless barbed suture
- Excellent penetration with premium needle
- Safe tissue fixation with optimized barbing pattern
- Knotless suture without loop fixation



CHIRAFIX® is a long-term absorbable barbed suture made of PDO (Polydioxanone). The suture features a durable needle and an optimized barbing pattern for effective tissue closure, while the stopper ensures stable fixation. This combination results in shorter operating times and more efficient procedures.

Premium QUALITY Needle

- Ease of repeated use due to lasting sharpness and excellent penetration
- Highly resistant to bending

Stopper SECURITY

- Stable fixation (Intensity exceeds USP standard)
- Shortening surgical operation time

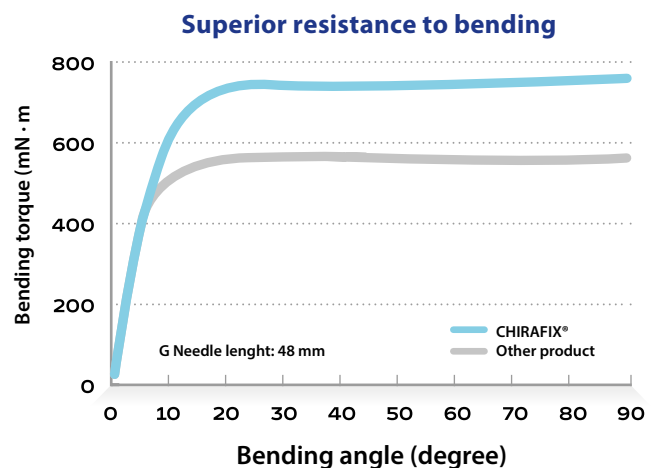
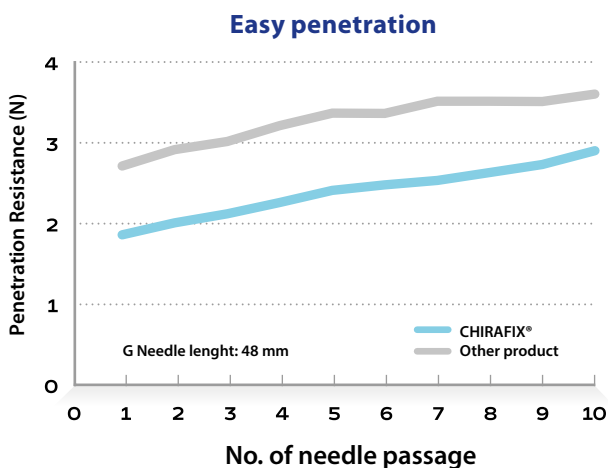
Barbing Pattern EFFICIENCY

- Same level of strength as a standard suture
- Excellent tissue closure

Premium quality needle

Penetration Test¹
 Lower resistance in penetration compared to other products, allowing repeated use

Bending Test¹
 Higher resistance to bending compared to other products, retaining curved shape even if used at hard tissue







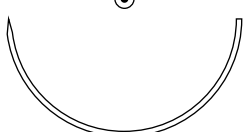
¹ Data on file (Needle Comparative Test Report, Sep. 26, 2018)
 *USP: United States Pharmacopeia






Specification & Package

CHIRAFIX® 180 - long-term absorbable suture - PDO (Polydioxanone).

Tensile strength after 2 weeks 85 - 89%, after 4 weeks 70 - 75%, after 6 weeks 40 - 47%.

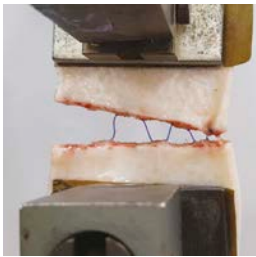
Absorption is completed after 180 - 210 days.

| Needle | EP | USP | Length | Colour | Cat. No | Pcs./box |
|---|-----|-----|-----------|--------|---------|----------|
| HR: ½ circle, round body needle | | | | | | |
| HR 17  | 2 | 3/0 | 1 x 15 cm | Violet | DVB101 | 12 |
| | 1.5 | 4/0 | 1 x 15 cm | Violet | DVB103 | 12 |
| | 2 | 3/0 | 1 x 30 cm | Violet | DVB105 | 12 |
| | 2 | 3/0 | 1 x 45 cm | Violet | DVB116 | 12 |
| HR 26  | 2 | 3/0 | 1 x 15 cm | Violet | DVB102 | 12 |
| | 3 | 2/0 | 1 x 15 cm | Violet | DVB107 | 12 |
| | 2 | 3/0 | 1 x 23 cm | Violet | DVB106 | 12 |
| | 3 | 2/0 | 1 x 23 cm | Violet | DVB104 | 12 |
| | 2 | 3/0 | 1 x 30 cm | Violet | DVB108 | 12 |
| | 3 | 2/0 | 1 x 30 cm | Violet | DVB109 | 12 |
| | 2 | 3/0 | 1 x 45 cm | Violet | DVB117 | 12 |
| | 3 | 2/0 | 1 x 45 cm | Violet | DVB118 | 12 |
| HR 30  | 2 | 3/0 | 1 x 23 cm | Violet | DVB119 | 12 |
| | 3 | 2/0 | 1 x 23 cm | Violet | DVB120 | 12 |
| HR 36  | 3 | 2/0 | 1 x 15 cm | Violet | DVB110 | 12 |
| | 3.5 | 0 | 1 x 15 cm | Violet | DVB124 | 12 |
| | 3 | 2/0 | 1 x 23 cm | Violet | DVB122 | 12 |
| | 3.5 | 0 | 1 x 23 cm | Violet | DVB125 | 12 |
| | 3 | 2/0 | 1 x 30 cm | Violet | DVB111 | 12 |
| | 3.5 | 0 | 1 x 30 cm | Violet | DVB112 | 12 |
| | 2 | 3/0 | 1 x 45 cm | Violet | DVB121 | 12 |
| | 3 | 2/0 | 1 x 45 cm | Violet | DVB123 | 12 |
| | 3.5 | 0 | 1 x 45 cm | Violet | DVB126 | 12 |
| | 3.5 | 0 | 1 x 60 cm | Violet | DVB127 | 12 |
| HR 48  | 3.5 | 0 | 1 x 30 cm | Violet | DVB128 | 12 |
| | 3.5 | 0 | 1 x 45 cm | Violet | DVB129 | 12 |
| | 3.5 | 0 | 1 x 60 cm | Violet | DVB130 | 12 |

| Needle | EP | USP | Length | Colour | Cat. No | Pcs./box |
|---|-----|-----|-----------|--------|---------|----------|
| DS: 3/8 circle, reverse cutting needle | | | | | | |
| DS 16  | 1.5 | 4/0 | 1 x 30 cm | Violet | DVB113 | 12 |
| DS 19  | 2 | 3/0 | 1 x 15 cm | Violet | DVB131 | 12 |
| | 2 | 3/0 | 1 x 30 cm | Violet | DVB114 | 12 |
| | 2 | 3/0 | 1 x 45 cm | Violet | DVB132 | 12 |
| DS 24  | 2 | 3/0 | 1 x 30 cm | Violet | DVB133 | 12 |
| | 2 | 3/0 | 1 x 45 cm | Violet | DVB134 | 12 |
| DS 26  | 3 | 2/0 | 1 x 30 cm | Violet | DVB115 | 12 |
| | 3 | 2/0 | 1 x 45 cm | Violet | DVB135 | 12 |
| KR: Ski, round body needle | | | | | | |
| KR 22  | 2 | 3/0 | 1 x 23 cm | Violet | DVB136 | 12 |



Barbing pattern



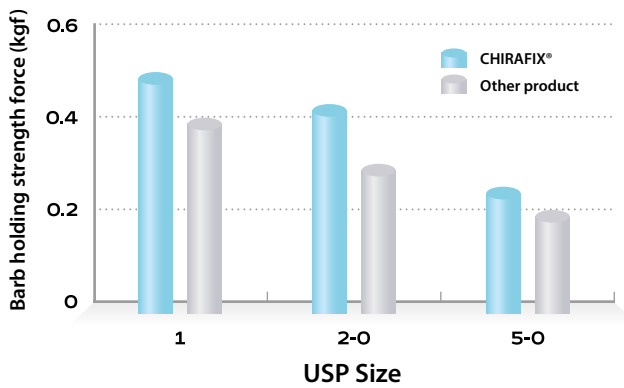
Barb Holding Strength Test¹

With optimized barbing pattern, wound fixation is stable by excellent tissue closure intensity

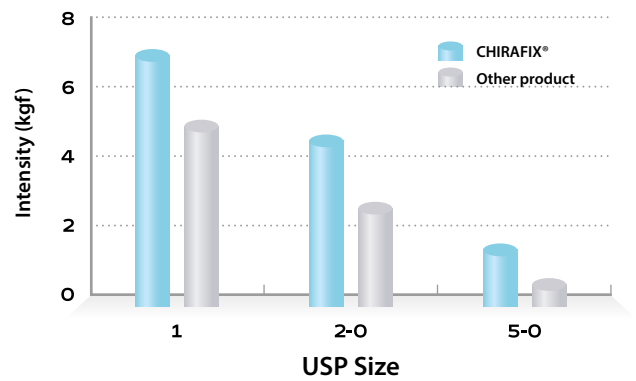
Linear Strength Test¹

Strength exceeds USP standard intensity. As a result, it has same wound closure safety level as a standard suture

Safe and firm fixation to tissue



Higher linear strength

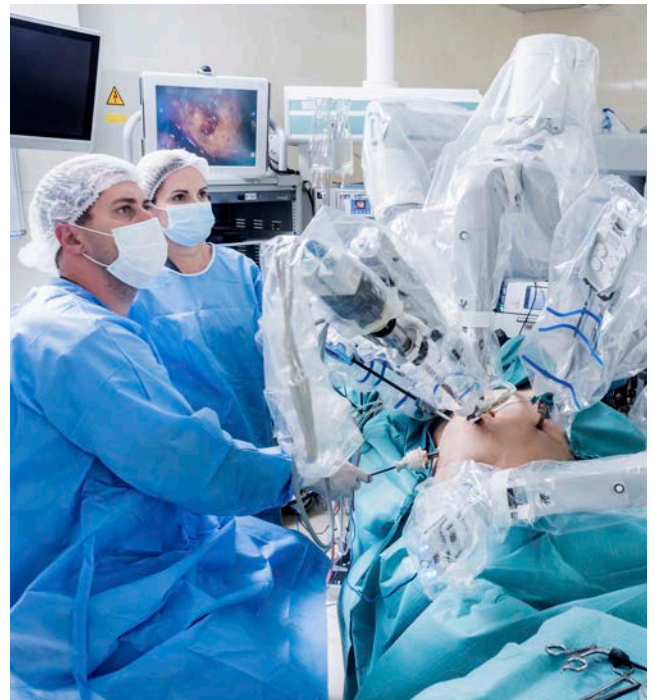
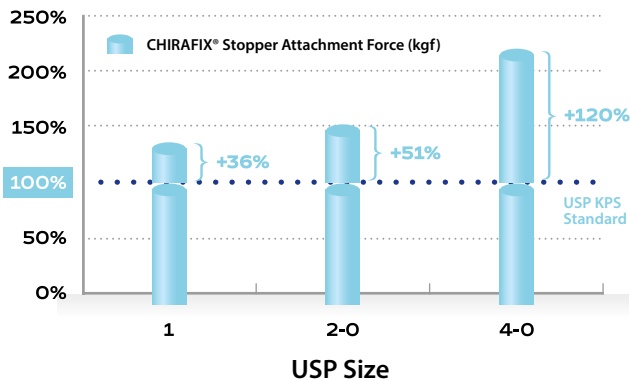


Stopper

Stopper Attachment Force Test¹

- Stopper attachment force exceeds USP standard
- Stopper shape does not require knot tying and loop fixation

Secure fixation without sliding



Barbed Suture offers several benefits compared to standard absorbable suture, one of which is the effect of reducing the surgical closure time. As an example, laparoscopic myomectomy shows an operation time reduction of 34%

(Alessandri F, Remorgida V, Venturini PL, Ferrero S, et al. Unidirectional barbed suture versus continuous suture with intracorporeal knots in laparoscopic myomectomy: a randomized study. Journal of minimally invasive gynecology, 17(6), 725-9, 11-12.2011)



CHIRMAX surgical

For different specialties, procedures and tissue types within human, veterinary and dental market, Chirmax Surgical provides state of the art, European quality surgical sutures and meshes to improve the lives of patients worldwide. Each individual production process is subject to strict scientific quality control.

Surgical Sutures

The choice of needle to be used must rest with the surgeon and may take several factors into account. Chirmax Surgical Sutures are manufactured in a wide range of types, shapes, lengths and diameters with high quality Mani Japanese needles to cover the most demanding requirements.

Choose between more than 5.000 absorbable and non-absorbable sutures and special needle products. We also develop and produce custom made sutures.

Surgical Meshes

A standard for the permanent repair of abdominal wall hernias. A wide range of mesh implants are available, with two main functions: to stabilise and strengthen soft tissue defects, and to act as a sling to support prolapsed organs and viscera. It is most commonly used in pelvic organ prolapse, urinary stress incontinence and hernia repairs.

*Strengthening Healing,
Supporting Recovery*

