

Precision Solutions in Endo-Surgery

From

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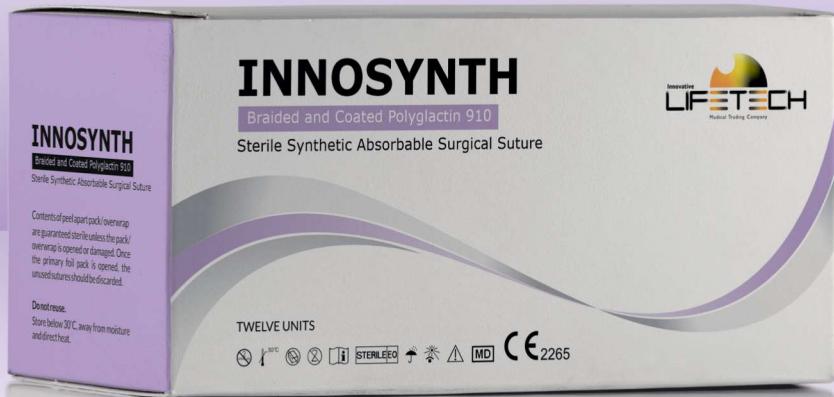
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ISO13485/CE

INNOSYNTH

Braided and Coated Polyglactin 910
Sterile Synthetic Absorbable Surgical Suture



Features & Benefits

- ❖ Synthetic, absorbable, compactly braided suture^{1,2}
- ❖ Better tensile strength with improved handling^{2,3}
- ❖ Smooth knot tie-down with better knot security⁴
- ❖ Better support during critical wound healing period⁴

Usage

Recommended for general soft tissue approximation and/or ligation.

Absorption Profile

Wound support: Up to 28 days

Total absorption: 60 to 70 days

References:

1. Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure. *Surg Clin North Am.* 2009;89(3):627-41.
2. Kudur MH, Pai SB, Sripathi H, Prabhu S. Sutures and suturing techniques in skin closure. *Indian J Dermatol Venereol Leprol.* 2009;75(4):425-34.
3. Blaydes JE. The evaluation of 7-0 Polyglactin 910 suture in cataract surgery. *Ophthalmic Surg.* 1975 Winter;6(4):99-104.
4. Rodeheaver GT, Thacker JG, Edlich RF. Mechanical performance of polyglycolic acid and polyglactin 910 synthetic absorbable sutures. *Surg Gynecol Obstet.* 1981 Dec;153(6):835-4.

INNOSYNTH FAST

Braided and Coated Polyglactin 910 - Fast Absorbable
Sterile Synthetic Absorbable Surgical Suture



Features & Benefits

- ⌚ Fast and predictable absorption¹
- ⌚ Better knot sliding and knot security¹
- ⌚ Decreased pain and early resumption of normal activity^{2,3}

Usage

Recommended for general soft tissue approximation, skin closure (paediatric surgery), episiotomy, circumcision, closure of oral mucosa and conjunctival suturing.

Absorption Profile

Wound support: Upto 7 days

Total absorption: 28 to 42 days

References:

1. Greenberg JA, Clark RM. Advances in suture material for obstetric and gynecologic surgery. *Rev Obstet Gynecol*. 2009 Summer;2(3):146-58.
2. Greenberg JA, Lieberman E, Cohen AP, Ecker JL. Randomized comparison of chromic versus fast-absorbing polyglactin 910 for postpartum perineal repair. *Obstet Gynecol*. 2004 Jun;103(6):1308-13.
3. Leroux N, Bujold E. Impact of chromic catgut versus polyglactin 910 versus fast-absorbing polyglactin 910 sutures for perineal repair: a randomized, controlled trial. *Am J Obstet Gynecol*. 2006 Jun;194(6):1585-90.

INNOGLYDE

Braided and Coated Polyglycolic Acid
Sterile Synthetic Absorbable Surgical Suture



Features & Benefits

- ⦿ Synthetic, coated, braided, absorbable suture made of polyglycolic acid¹
- ⦿ Lubricant coating decreases the coefficient of friction¹, allowing easy tissue passage
- ⦿ Excellent initial tensile strength²
- ⦿ Elicits less inflammatory response since it is not a naturally occurring organic substance³
- ⦿ Excellent knot security³

Usage

Recommended for Soft Tissue Approximation Including Skin, Subcutaneous, Bladder Flap and Uterine Closure

Absorption Profile

Wound support: Approximately 28 days

Total absorption: Approximately 90 days

References:

- 1.Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure. *SurgClin North Am.* 2009;89(3):627-41.
- 2.Outlaw KK, Vela AR, O'Leary JP. Breaking strength and diameter of absorbable sutures after *in vivo* exposure in the rat. *Am Surg* 1998;64:348-54.
3. Kudur MH, Pai SB, Sripathi H, Prabhu S. Sutures and suturing techniques in skin closure. *Indian J DermatolVenereolLeprol.* 2009;75(4):425-34.

INNOGLYDE FAST

Braided and Coated Polyglycolic Acid
Fast absorbable Sterile Synthetic Absorbable Surgical Suture



Features & Benefits

- Synthetic, coated, braided, absorbable suture
- Faster, predictable absorption,¹ reduces pain and discomfort
- Consistent, short-term wound support²
- Patients with standard synthetic sutures require removal of unabsorbed suture material compared with rapidly absorbed sutures³

Usage

Specially Designed for Episiotomy Procedure and Skin Closure

Absorption Profile

Wound support: Approximately 7 days

Total absorption: 42 to 63 days

Reference:

1. Chu CC, Williams DF. The effect of gamma irradiation on the enzymatic degradation of polyglycolic acid absorbable sutures. *J Biomed Mater Res*. 1983;17(6):1029-40.
2. Coated fast absorbing polyglycolic acid suture, undyed: Summary of safety and effectiveness. 2001. Available at: http://www.accessdata.fda.gov/cdrh_docs/pdf/k014021.pdf Accessed on September 16, 2014.
3. Kettle C, Dowswell T, Ismail KM. Absorbable suture materials for primary repair of episiotomy and second-degree tears. *Cochrane Database Syst Rev*. 2010 Jun 16;(6):CD000006. doi: 10.1002/14651858.CD000006.pub2

ILTGLYDE

Monofilament Poliglecaprone 25 Sterile Synthetic Absorbable Surgical Suture



Features & Benefits

- Minimal, less reactive scars¹ with better cosmesis
- Significant initial tensile strength
- Predictable absorption²³

Usage

Recommended for use in general soft tissue approximation and/or ligation.

Absorption Profile

Wound support: Approximately 14 days

Total absorption: Approximately 90 days

Reference:

1. Sailakshmi, M., Misra, S., Hs, S., Acharya, S., Moharana, A. K., & Ts, D. (2023). Clinical Equivalence of Monoglyde* and Monocryl* Absorbable Poliglecaprone-25 Sutures: A Single-Blind, Randomized Study. *Cureus*, 15(5), e38938. <https://doi.org/10.7759/cureus.38938>

2. Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure. *Surg Clin North Am*. 2009;89(3):627-41.

3. Ramsey C, Koch F. The role of sutures in wound healing, 2001. Available at <http://www.infectioncontroltoday.com/articles/2001/09/the-role-of-sutures-in-wound-healing.as-p> Accessed on September 16, 2014

INNO PDS

Monofilament Polydioxanone
Sterile Synthetic Absorbable Surgical Suture



○ Features & Benefits

- Synthetic, absorbable, monofilament suture
- Extended tensile strength¹
- Smooth passage through tissue
- Slow and predictable absorption²
- Induces minimum inflammation¹
- Loop suture in sizes 1 and 0

○ Usage

Recommended for general soft tissue approximation, paediatric cardiovascular procedures and ophthalmic surgery.

○ Absorption Profile

Wound support: Approximately 42 days

Total absorption: 180 to 220 days

Reference:

1. Lober CW, Fenske NA. Suture materials. In: Roenigh&Roenigk's Dermatologic Surgery: Principles and Practice. 2nd Edition. 1996; pp.91-100.
2. Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure, Surg Clin North Am. 2009;89(3):627-41

INNOBARB

Absorbable Surgical Needle-Suture
(Synthetic) Knotless Tissue-Closure Device
Monofilament Polydioxanone



Features & Benefits

- 🕒 Secure & Effective Triangular End-stopper
- 🕒 Single Angle Cut Uni-directional Helical Barb Design
- 🕒 World-class 300 series QNPL needle

Application

- General Surgery procedures
- Urology procedures
- Plastic & Cosmetic Surgeries

INNOSILK

Black Braided Silk

Sterile non-Absorbable Surgical Suture



○ Features & Benefits

- Smiley face icon: Natural, braided fibers of silk¹
- Smiley face icon: Better handling²
- Smiley face icon: High Knot Security³
- Smiley face icon: Commonly used on mucosal and intertriginous areas as it is soft and pliable²
- Smiley face icon: Temporary suture to elevate/ retract tissues to improve visibility during surgery¹

○ Usage

Recommended for general soft tissue approximation and/or ligation including use in cardiovascular, ophthalmic and neurological tissues.

Reference:

- Terhune M. Materials for wound closure. 2012. Available at <http://emedicine.medscape.com/article/1127693-overview> Accessed on: September 16, 2014.
- Kudur MH, Pai SB, Sripathi H, Prabhu S. Sutures and suturing techniques in skin closure. Indian J DermatolVenereolLeprol. 2009;75(4):425-34.
- Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure. SurgClin North Am. 2009;89(3):627-41.16;(6):CD000006. doi:10.1002/14651858.CD000006.pub2

INNOLON

Monofilament Polyamide (Nylon)
Sterile non-Absorbable Surgical Suture



Features & Benefits

- Synthetic, nonabsorbable, monofilament suture made of a chemically inert polyamide¹
- Low tissue reactivity¹
- High tensile strength
- Excellent elasticity
- Smooth and non-fraying

Usage

Recommended for general soft tissue approximation and/or ligation including use in cardiovascular, ophthalmic and neurological tissues.

Reference:

1. Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure. *Surg Clin North Am.* 2009;89(3):627-41.

INNOLENE

Monofilament Polypropylene
Sterile non-Absorbable Surgical Suture



Features & Benefits

- Low tissue reactivity and high tensile strength¹
- High plasticity allows better accommodation of wound edema¹
- Easy to remove- ideal for a running, subcuticular closure¹
- Does not adhere to tissues- can be used as an intradermal suture²
- Easy visibility
- Easy retrieval pack

Usage

Recommended for general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic and neurological tissues.

Reference:

1. Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure. *Surg Clin North Am.* 2009;89(3):627-41.
2. Kudur MH, Pai SB, Sripathi H, Prabhu S. Sutures and suturing techniques in skin closure. *Indian J Dermatol Venereol Leprol.* 2009;75(4):425-34

INNOBOND

Braided and Coated Polyester
Sterile Non-Absorbable Surgical Suture



Features & Benefits

- Synthetic, non absorbable, coated, braided suture¹
- High Tensile strength for reliability¹
- Braided form gives a more secure knot¹
- Low tissue reactivity- undergoes no significant change in the body¹
- Silicon coated for smooth knot slide
- Good handling and long lasting²
- Available in green and white

Usage

Recommended for general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic and neurological tissues.

Reference:

- Hochberg J, Meyer KM, Marion MD. Suture choice and other methods of skin closure. *Surg Clin North Am*. 2009;89(3):627-41.
- Kudur MH, Pai SB, Sripathi H, Prabhu S. Sutures and suturing techniques in skin closure. *Indian J Dermatol Venereol Leprol*. 2009;75(4):425-34.

INNOSTEEL

Monofilament 316 LVM Stainless
Steel Sterile Non-Absorbable Surgical Suture



Features & Benefits

- Premium quality SS316LVM steel
- Causes minimal tissue reaction
- As retention sutures for obese patients to support deep tissues¹

Usage

Recommended for Sternum Closure

Reference:

1. Subrahmanyam GR, Mehrotra R, Vasireddy NS, Samad A, Moharana AK, Siddabasavaiah D. A Randomized Study Evaluating Clinical Efficacy and Safety of Trusteel® and Ethisteel® Surgical Steel Sutures for Sternal Closure in Subjects Undergoing Surgical Procedures by Sternotomy. *Cureus*. 2024 Apr;16(4):

INNOFIBRE

Ultra High Molecular Weight Polyethylene (UHMWPE)
Sterile Non-Absorbable Surgical Suture



Features & Benefits

- ⌚ Resistant to fraying and abrasion¹
- ⌚ Extremely strong with very low coefficient of friction²
- ⌚ Soft as silk with good pliability²
- ⌚ Ideal for sports injuries, trauma or osteoarthritis²
- ⌚ Good choice for minimally invasive surgical techniques²

Applications

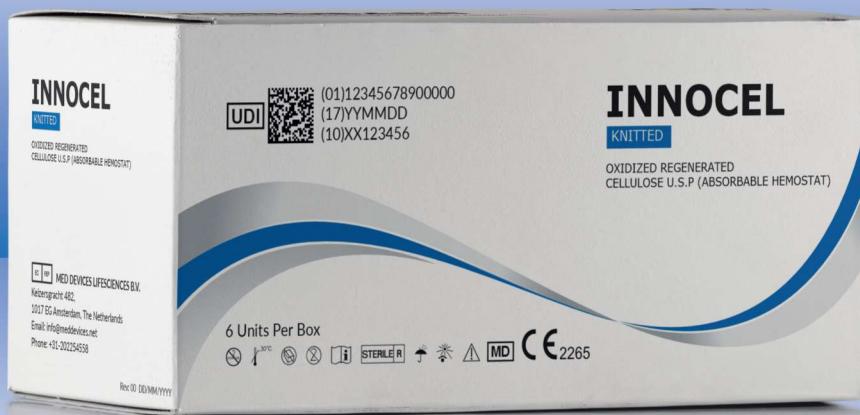
- ⌚ Knee surgeries (ACL/PCL reconstruction)³
- ⌚ Rotator cuff repair³
- ⌚ Arthroscopy³
- ⌚ Four part proximal humerus fracture⁴
- ⌚ Reattachment of abdominal muscles to the iliac crest⁴
- ⌚ Repair of Fascia lata and Achilles tendon⁴
- ⌚ Soft tissue repair²

Reference:

1. Savage E, Hurren CJ, Slader Set al. Bending and abrasion fatigue of common suture materials used in arthroscopic and open orthopedic surgery. *J Orthop Res.* 2013;31(1):132-8.
2. Advanced Materials for Orthopedic Implants. The Becker Spine website. Available at: <http://www.beckerspine.com/orthopedicspinedeviceimplantnews/item/16030advancedmaterialsfororthopedicimplants.html> Accessed on 27th Jan 2016.
3. Camarda L, La Gattuta A, Butera Met al. FiberWire tension band for patellar fractures. *J Orthop Traumatol.* 2015 Jul 5, [Epub ahead of print]
4. Najibi S, Banglmeier R, Matta Jet al. Material properties of common suture materials in orthopaedic surgery. *Iowa Orthop J.* 2010;30:84-8

INNOCEL KNITTED

Oxidized Regenerated Cellulose U.S.P (Absorbable Hemostat)



Features & Benefits

Achieve hemostasis when conventional surgical techniques are not available or are impractical.

- Offers good visibility of the bleeding site due to the sheer knit structure.¹
- Achieves hemostasis faster and more efficiently than traditional methods such as gauze and digital pressure.^{1,2}
- Can be cut & folded as needed.^{3,4}
- Good Flexibility and drapability.⁴

ORC provides adequate hemostasis and prevent bleeding & conventional hemostatic strategies related complications.^{5,6}

By reducing the bleeding related complications, ORC lowers the direct and indirect costs.^{7,8}

References:

1. Rho SY, Jin M, Kim HK, Park JI, Park JH, Yun S, Lee M, Choi SB, Hong JY, Kim KS. The novel use and feasibility of hemostatic oxidized regenerated cellulose agent (SurgiGuard®): multicenter retrospective study. *Gland Surg* 2023;12(7):905-916. doi: 10.21037/gs-22-675
2. Chiara O, Cimbanassi S, Bellanova G, Chiarugi M, Mingoli A, Olivero G, et al. A systematic review on the use of topical hemostats in trauma and emergency surgery. *BMC Surg*. 2018;18(1):68.
3. Le Huec JC, AlEissa S, Bowey AJ, Debono B, El-Shawarbi A, Fernández-Baillo N, Han KS, Martin-Benilloch A, Pfugmacher R, Sabatier P, Vanni D, Walker I, Warren T, Litrico S. Hemostats in Spine Surgery: Literature Review and Expert Panel Recommendations. *Neurospine*. 2022 Mar;19(1):1-12. doi: 10.14245/ns.2143196.598.
4. Brown KGM, Solomon MJ. Topical haemostatic agents in surgery. *Br J Surg*. 2024 Jan 3;111(1):znad361. doi: 10.1093/bjs/znad361.
5. Masci, E., Faillace, G. & Longoni, M. Use of oxidized regenerated cellulose to achieve hemostasis during laparoscopic cholecystectomy: a retrospective cohort analysis. *BMC Res Notes* 11, 239 (2018). <https://doi.org/10.1186/s13104-018-3344-3>
6. Ramirez MG, Niu X, Epstein J, et al. Cost-consequence analysis of a hemostatic matrix alone or in combination for spine surgery patients. *J Med Econ*. 2018;21:1041-6.
7. Tomizawa Y. Clinical benefits and risk analysis of topical hemostats: a review. *J Artif Organs*. 2005;8(3):137-42. doi: 10.1007/s10047-005-0296-x. PMID: 16235029.
8. Stokes ME, Ye X, Shah M, Mercaldi K, Reynolds MW, Rupnow MF, Hammond J. Impact of bleeding-related complications and/or blood product transfusions on hospital costs in inpatient surgical patients. *BMC Health Serv Res*. 2011 May 31;11:135.

INNOCEL FIBRILLAR

Oxidized Regenerated Cellulose U.S.P (Absorbable Hemostat)



Features & Benefits

ORC is prepared by the controlled oxidation of regenerated cellulose. The fabric is white with a pale yellow cast. It is strong and can be sutured or cut without fraying.

- ⌚ Non-woven ORC achieves faster hemostasis than woven ORC.^{1,2}
- ⌚ Precision placement: Layered fibrous structure that can be split or formed into clumps & can be tailored to any shape, size & thickness as desired.³
- ⌚ Adheres easily to bleeding surfaces.⁴
- ⌚ Non-woven ORC is absorbed quickly in the bleeding tissue compared to woven ORC.⁵

ORC can provide adequate hemostasis and prevent bleeding & conventional hemostatic strategies related complications.^{5,6}

By reducing the bleeding related complications, ORC lowers the direct and indirect costs.^{7,8}

Reference:

1. Rho SY, Jin M, Kim HK, Park JI, Park JH, Yun S, Lee M, Choi SB, Hong JY, Kim KS. The novel use and feasibility of hemostatic oxidized regenerated cellulose agent (SurgiGuard[®]): multicenter retrospective study. *Gland Surg* 2023;12(7):905-916. doi: 10.21037/gs-22-675.
2. Hutchinson, R. W., George, K., Johns, D., Craven, L., Zhang, G., & Shnoda, P. (2013). Hemostatic efficacy and tissue reaction of oxidized regenerated cellulose hemostats. *Cellulose*, 20(1), 537–545. doi:10.1007/s10570-012-9828-8.
3. Natsume T, Okumura N, Shimizu Y. A cotton-like fibrous collagen hemostatic agent. *Jpn J Artif Organs* 1993;22:348–352 (in Japanese)
4. Ajmeri, J. R., & Ajmeri, C. J. (2016). Developments in nonwoven materials for medical applications. *Advances in Technical Nonwovens*, 227–256. doi:10.1016/b978-0-08-100575-0.00008-5.
5. Masci, E., Faillace, G., & Longoni, M. Use of oxidized regenerated cellulose to achieve hemostasis during laparoscopic cholecystectomy: a retrospective cohort analysis. *BMC Res Notes* 11, 239 (2018). <https://doi.org/10.1186/s13104-018-3344-3>
6. Wolfe AR, Davenport MT, Rozanski AT, Shakir NA, Ward EE, West ML, Morey AF. An update on oxidized regenerated cellulose (fibrillar) in reducing postoperative corporal bleeding following inflatable penile prosthesis surgery. *Transl Androl Urol* 2020;9(1):43–49. doi: 10.21037/tau.2019.08.05
7. Tornizawa Y. Clinical benefits and risk analysis of topical hemostats: a review. *J Artif Organs*. 2005;8(3):137–42. doi: 10.1007/s10047-005-0296-x. PMID: 16235029.
8. Stokes ME, Ye X, Shah M, Micaldi K, Reynolds MW, Rupnow MF, Hammond J. Impact of bleeding-related complications and/or blood product transfusions on hospital costs in inpatient surgical patients. *BMC Health Serv Res*. 2011 May 31;11:135

INNOPLER

Sterile Skin Stapler



Features & Benefits

- Superior, ergonomic design-permits rapid skin stapling, suits a variety of hand sizes & helps in easy navigation
- Excellent cosmetic outcome with minimal scar compared to suture¹
- Light weight & unique design offers excellent view to the Surgeon during stapling for better outcome
- INNOPLER-Medical grade stainless steel staples for skin closure
- Easy to remove from the skin using Xtract (sterile disposable staples remover)

Reference:

1. Ahmed S, Patra S, Manna N, Halder T. Surgipler Skin Stapler versus Trilon Polyamide Suture in Post-surgical Open Abdominal Wound Closure: A Randomised Clinical Trial. Clin of Diagn Res. 2023; 17(12):PC13-PC18. [ps://www.doi.org/10.7860/JCDR/2023/66315/18864](https://doi.org/10.7860/JCDR/2023/66315/18864).