



Histoacryl[®] LapFix

A REVOLUTION IN MESH FIXATION!

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ATRAUMATIC

Atraumatic mesh fixation with cyanoacrylate is a solution available for patients undergoing laparoscopic inguinal hernia surgery

- Non invasive method reported to be better tolerated by the patient^{1,2,3,4}
- Low recurrence rate^{1,4,5,6,8,11,12,13,14}
- Lower chronic pain^{6,8,12} or no chronic pain compared to tackers^{7,11,13,15,16}
- Less seroma compared to tackers^{9,10,11}
- Faster return to work⁶

SAFE

Atraumatic mesh fixation with cyanoacrylate is a solution proven to be as safe as the standard laparoscopic fixation with tackers

- Good biocompatibility and in vivo tolerance^{6,17,18,19}
- No human or animal components²¹
- Strong fixation (prevents mesh dislocation)^{9,20}
- Intrinsic bacteriostatic properties that help to reduce local septic complications⁵

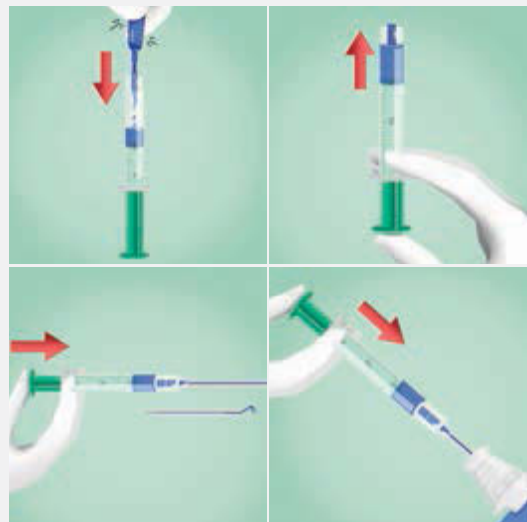
EASY

Atraumatic mesh fixation with cyanoacrylate is a very convenient solution that bring many advantages compared to tackers or sutures

- Fast and efficient polymerization⁶
- Storage at room temperature²¹
- Ready to use system, assembly in < 30 sec



In internal pre-clinical test²⁵, a group of experienced surgeons n=6 evaluated the easiness of use



- Evaluate the easiness to assemble the cannula to the device (from 1 to 10).
Average score 9.33
- Is the shape of the type adequate for the procedure (from 1 to 10)?
Average score 9.00
- Will it possible to fix a bilateral hernia with this device? **100 % yes**
- Does the device look functional and useful for being used to fix meshes in laparoscopic Hernia repair procedures? **100 % yes**

REFERENCES / STUDIES

- 1 Testini M, Lissidini G, Poli E, Gurrado A, Lardo A, Piccinni G. A single-surgeon randomized trial comparing sutures, N-butyl-2-cyanoacrylate and human fibrin glue for mesh fixation during primary inguinal hernia repair. *Can J Surg.* 2010;53(3):155-60.
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- 11 Jani K. Randomised controlled trial of n-butyl cyanoacrylate glue fixation versus suture fixation of mesh in laparoscopic totally extraperitoneal hernia repair. *J Minim Access Surg.* 2016;12(2):118-23.
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STUDY	YEAR	PATIENT	PRODUCT	TECHNIQUE
Kukleta et al. ⁶	2011	1336	BCA vs. tacks	TAPP
Mikhail et al. ²²	2012	198	BCA vs. suture	Plug in open technique
Brügger et al. ⁸	2012	80	BCA vs. tackers	TAPP
Moreno Egea et al. ¹⁵	2013	70	BCA vs. non absorbable suture	Lichtenstein/Rutkow and TEP
Subwongcharoen et al. ¹²	2013	60	Histoacryl [®] vs. staples	TEP
Wang et al. ¹³	2013	1027	No fixation vs. BCA vs. S vs. BCA + S	TAPP
Gutlic N et al. ²³	2016	1110	Permanent fixation (staplers/tackers) vs. BCA/no fixation	TEP
Filipovic-Cugura et al. ¹⁴	2014	30	Histoacryl [®] vs. tackers	TEP
Golling et al. ²⁰	2014	28	Histoacryl [®] vs. tackers	TAPP and TEP
Burza et al. ¹⁶	2014	70	BCA vs. tackers	TAPP
Garcia-Vallejo et al. ²⁴	2014	61	BCA	TEP
Jani K ¹¹	2016	251	BCA vs. absorbable suture	TEP

NR: not recorded, > better or faster, = equal, < smaller or lower, H: Histoacryl[®], BCA: Butyl-cyanoacrylate, S: suture, T: tacks, F: fibrin glue, NS: no significance

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- 20 Golling M, Hofmann P, Hess C. Mesh fixation for TAP and TEP – First use of a new laparoscopic cyanoacrylate applicator. *Hernia* 2014;18(2):135-47.
- 21 Instruction for Use Histoacryl®.
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- 25 Internal data. Survey on the handling of Histoacryl® LapFix, Barcelona, Spain, May 2016

EARLY PO PAIN	CHRONIC PAIN	RECURRENCE	OPERATION TIME	FOLLOW-UP
BCA<T due to different factors. Not used as evidence.	BCA<T	0.37 % vs. 2.3 %	NR	98 months
NS	2.9 % vs. 10.3 %	0 % vs. 1 %	NR	16 months
2 % vs. 14 %	4 % vs. 32 %	BCA = T	BCA = T	38 months
2.4 +/- 1 vs. 4.5 +/- 1.4 (VAS)	0 % vs. 20 %	0 % vs. 0 %	30 min vs. 70 min	15 months
1.6 +/- 1.33 vs. 2.35 +/- 1.32 (VAS)	16 % vs. 33 %	0 % vs. 3.3 %	NR	1 year
1.4 ± 0.6 vs. 1.3 ± 0.6 vs. 2.2 ± 0.9 vs. 2.2 ± 0.7 (VAS)	0 % vs. 0 % vs. 2.2 % vs. 2.1 %	0 % vs. 0 % vs. 0 % vs. 0 %	NR	19 months
0 % vs. 0.5 %, NS	8.7 % vs. 7.4 %, NS	1.5 % vs. 1.3 %, NS	40 min	33 months recurrent hernia 7.5 years
1.8 vs. 2.3	NR	0 % vs. 0 %	NR	1 month
NR	NR	NR	NR	NR
NR	0 % vs. 11.42 %	2.85 % vs. 2.85 %	BCA = T	24 months
59 % (24h), 34.4 %(48h), 6.6 %(>48h)	0 %	0 %	NR	29.7 months
BCA<S but not statistically significant	0 % vs. 0 %	0 % vs. 0 %	BCA>S	24 months

ORDERING INFORMATION

DESCRIPTION		ARTICLE NO.	CONTENTS
Histoacryl® Lap Mesh Fixation: 1 unit with 2 Histoacryl® ampoules		1052008	2 x 0.5 ml 1 x LapFix applicator
Histoacryl® Lap Mesh Fixation: 5 units with 5 Histoacryl® ampoules		1050165	5 x 0.5 ml 5 x LapFix applicator
Histoacryl® Blue		1050044	5 units
Optilene® Mesh 7.5 x 15 cm (60 g/m ² ; pore size 1.5 mm)		1065030	5 units
Optilene® Mesh 10 x 15 cm (60 g/m ² ; pore size 1.5 mm)		1065040	5 units
Optilene® Mesh 15 x 15 cm (60 g/m ² ; pore size 1.5 mm)		1065080	5 units
Optilene® Mesh LP blue striped 7.5 x 15 cm (36 g/m ² ; pore size 1 mm)		1964715	5 units
Optilene® Mesh LP blue striped 10 x 15 cm (36 g/m ² ; pore size 1 mm)		1964725	5 units
Optilene® Mesh LP blue striped 15 x 15 cm (36 g/m ² ; pore size 1 mm)		1964705	5 units
Optilene® Mesh Elastic blue striped 10 x 15 cm (48 g/m ² ; pore size 2.4 x 3.6 mm)		1964920	5 units



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