

GLUBRAN[®]2

Hepato Bilio Pancreatic Surgery

**Synthetic, biliostatic,
bacteriostatic and hemostatic
sealant**



Intended use

- Sealing and hemostasis of liver and pancreatic resections, to prevent the formation of biliary and pancreatic bilomas and fistulas, or post-operative bleeding
- Sealing of anastomoses in the reconstruction of bile and pancreatic ducts, to prevent leaks
- Sealing and reinforcement of vascular sutures, also during liver transplant procedures
- Hemostasis of oozing hemorrhages after detachments and dissections

"... bile contains profibrinolytic activity that causes lysis of the clot formed... a possible solution to the problem of bile leakage after liver resection may lie in the development of safe and ready to use synthetic sealants instead of fibrin sealants by the fibrin sealant at least in vitro..."

de Boer MT. et al. 2012 ¹¹



The efficacy of treatment to prevent fistulas formation with Glubran[®] 2 sprayed on the resection surface was evaluated by an observational study conducted on 205 patients undergoing liver resection after preoperative diagnosis of mCRC. The clinical results show that the intraoperative use of Glubran[®] 2 is a safe and feasible procedure that can reduce the onset of bilomas and biliary fistulas.

Izzo F. et al. 2019 ⁵

* P < 0,001

PATIENTS WITH METASTATIC COLORECTAL CANCER (mCRC)

| | | GLUBRAN[®] 2 | Control |
|--|----------------|------------------------------|----------------|
| Population | N | 205 | 113 |
| Hepatic metastases | | 1075 | 452 |
| No. of metastases/patient | Median (range) | 4 (1-7) | 5 (2-6) |
| Major hepatectomies | | 151 (73) | 56 (50) |
| Segmental resections | n° (%) | 10 (5) | 40 (36) |
| Wedges and Sectorectomies | | 34 (17) | 17 (14) |
| Days of hospital stay | Median (range) | 8 (7-16) | 10 (5-14) |
| Bilomas | % | 13* | 16 |
| Fistulas | | 1* | 2,6 |
| Hepatic lesions at 5 months (N) | N | 13 | 19 |
| Mortality at 30 days | | 0 | 0 |

| | DISTANCE FROM TISSUE | NEBULIZING DIAMETER | INDICATIONS | EPATO-BILIO-PANCREATIC SURGERY |
|--|-----------------------------|----------------------------|-------------------------------------|--|
| NEBULIZER G2-NBT | | | | |
| RIGID NEBULIZER G2-NBT-RIG | 5-7 cm | 4 cm | On large surfaces In laparoscopy | Hemostasis and sealing of resections |
| SHORT NEBULIZER G2-NBT-SHORT | | | In open surgery | |
| SMALL NEBULIZER G2-NBT-SMALL | 2-3 cm | 1 cm | On small surfaces In laparoscopy | Sealing, hemostasis and reinforcement of manual or mechanical suture lines |
| SHORT MINI NEBULIZER G2-NBT-SM-SHORT | | | In open surgery | |

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