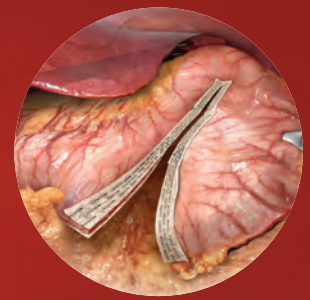


# Selected scientific literature for Solid Organ Procedures



*“We conclude that staple line reinforcement is a simple and effective method of reducing pancreatic stump leakage after distal pancreatectomy.”*

*“We believe that the standard individual staples by themselves can “cut” through the pancreatic tissue without effectively achieving any compression or seal. The reinforcement acts as a scaffold for the individual staples, preventing them from cutting through the tissues and allowing even tension distribution along the closure line.”*

Jimenez RE, Mavanur A, Macaulay WP. Staple line reinforcement reduces postoperative pancreatic stump leak after distal pancreatectomy. *Journal of Gastrointestinal Surgery* 2007;11(3):345-349.

- 13 patients with GORE® SEAMGUARD® Product
- NO leaks (significantly reduced compared to control group)\*

*“Bioabsorbable mesh reinforcement of the staple line lowered our pancreatic leak rate and was not associated with increased complications.”*

Thaker RI, Matthews BD, Linehan DL, Strasberg SM, Eagon JC, Hawkins WG. Staple line reinforcement with bioabsorbable mesh reduces leak rate following distal pancreatectomy. Abstract presented at the American Hepato-Pancreato-Biliary Association Meeting (AHPB); March 9-12, 2006; Miami Beach, FL. *HPB* 2006;8 (Supplement 1):60.

- 16 patients with GORE® SEAMGUARD® Product
- NO leaks (significantly reduced compared to control group)\*

*“It should be emphasized that after introducing reinforcement of the staple line with [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] in this study, no leak has been observed within 30 days from surgery.”*

Pugliese R, Maggioni D, Sansonna F, et al. Laparoscopic distal pancreatectomy. A retrospective review of 14 cases. *Surgical Laparoscopy, Endoscopy & Percutaneous Techniques* 2008;18(3):254-259.

- 7 patients with GORE® SEAMGUARD® Product
- NO leaks at 30 days post-op (significantly reduced compared to control group)\*

*“Mesh reinforcement of the stapled pancreatic transection line reduced the pancreatic leak rate after distal pancreatectomy.”*

*“We conclude that incorporation of mesh into the stapled transection line is safe and holds considerable promise as a method to reduce the pancreatic leak rate after open and laparoscopic distal pancreatectomy”*

Thaker RI, Matthews BD, Linehan DC, Strasberg SM, Eagon JC, Hawkins WG. Absorbable mesh reinforcement of a stapled pancreatic transection line reduces the leak rate with distal pancreatectomy. *Journal of Gastrointestinal Surgery* 2007;11(1):59-65.

- 29 patients with GORE® SEAMGUARD® Product
- 3.5% leak rate (significantly reduced compared to control group)\*

*“Buttressing the staple line with absorbable material seems to be effective in preventing pancreatic fistula after distal pancreatectomy when compared with standard stapling alone.”*

Rotellar F, Pardo F, Montiel C, et al. Totally laparoscopic Roux-en-Y duct-to-mucosa pancreaticojejunostomy after middle pancreatectomy. A consecutive nine-case series at a single institution. *Annals of Surgery* 2008;247(6):938-944.

- 7 patients with GORE® SEAMGUARD® Product
- NO leaks or fistulas

*“The use of [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] is quickly becoming a common adjunct in distal pancreas resections. Our study shows a lower incidence of pancreatic leak after distal pancreatectomy with the use of this staple line-reinforcing product.”*

Yamamoto M, Hayashi MS, Nguyen NT, Nguyen TD, McCloud S, Imagawa DK. Use of Seamguard to prevent pancreatic leak following distal pancreatectomy. *Archives of Surgery* 2009;144(10):894-899.

- 47 patients with GORE® SEAMGUARD® Product
- 4% leak rate (significantly reduced compared to control group)\*



**PERFORMANCE**  
through innovation

*"Staple line reinforcement is a simple and effective method of reducing pancreatic stump leakage after distal pancreatectomy. The economic impact of lower leak rates is reflected in significantly shorter hospital stays."*

Mavanur A, Takata M, Macaulay WP, Orlando R III, Piorkowski RJ, Jimenez RE. Staple line reinforcement reduces postoperative pancreatic stump leak after distal pancreatectomy. Abstract presented at the 87th Annual Meeting of the New England Surgical Society; September 15-17, 2006; Groton, CT.

- 10 patients with GORE® SEAMGUARD® Product  
- NO leaks (significantly reduced compared to control group)\*

*"In 7 patients treated with a linear stapler associated with Seamguard, we obtained a good postoperative course without fistula."*

Melotti G, Butturini G, Piccoli M, et al. Laparoscopic distal pancreatectomy results on a consecutive series of 58 patients. *Annals of Surgery* 2007;246(1):77-82.

- 7 patients with GORE® SEAMGUARD® Product  
- NO fistulas

*"[GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] is a safe and effective adjunct to endoscopic mesoappendiceal stapling which prevents intraoperative and postoperative staple line bleeding."*

*"[GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] is a rapid, reliable adjunct to endoscopic stapling, which provides complete hemostasis along the mesenteric staple line when used during laparoscopic appendectomy."*

Tucker JG, Copher JC, Reilly JP, Fitzsimmons TR. The use of Bioabsorbable Seamguard during laparoscopic appendectomy *Surgical Laparoscopy, Endoscopy & Percutaneous Techniques* 2007;17(2):83-85.

- 33 patients with GORE® SEAMGUARD® Product  
- NO bleeding or leaks

*"Laparoscopic appendectomy using endoscopic linear stapler with bioabsorbable glycolide copolymer reinforcement is a safe and efficient procedure for acute appendicitis."*

Saber AA, Boros M, Rao A. Bioabsorbable glycolide copolymer staple line reinforcement for laparoscopic appendectomy. Poster presented at the 2007 Scientific Session of the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES); April 18-22, 2007; Las Vegas, Nevada. *Surgical Endoscopy* 2007;21 (Supplement 1):S396.

- 46 patients with GORE® SEAMGUARD® Product  
- NO bleeding or leaks

*"Staple line reinforcement with the absorbable polymer membrane has the potential to decrease staple line hemorrhage and bile leakage."*

*"Staple line reinforcement with the absorbable polymer membrane might lead to the elimination of more expensive reoperations associated with staple line hemorrhage and bile leakage of longer hospital stays, or of intermittent radiologic procedures for drainage."*

Consten ECJ, Gagner M. Perioperative outcome of laparoscopic left lateral liver resection is improved by using staple line reinforcement technique: A case report. *Journal of Gastrointestinal Surgery* 2005;9(3):360-364.

- Case study with GORE® SEAMGUARD® Product  
- NO bleeding or leaks

*"Bioabsorbable staple line reinforcement material provides staple line reinforcement without requiring the implantation of a permanent prosthetic material. It diminishes perioperative bleeding and possibly pancreatic duct leaks. Concerns over possible long-term complications such as migration, erosion, calcification and infection are reduced."*

Consten ECJ, Gagner M. Staple line reinforcement in laparoscopic distal pancreatectomy diminishes pancreatic duct leak and hemorrhage. Video abstract presented at the 13th International Congress of the European Association for Endoscopic Surgery and other Interventional Techniques (E.A.E.S.); June 1-4, 2005; Venice Lido, Italy. *Surgical Endoscopy* 2006;20(Supplement 1):S244.

- Case study with GORE® SEAMGUARD® Product  
- NO bleeding or leaks

\*Compared to patients with no staple line reinforcement



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