

Selected scientific literature for Bariatric Procedures – Gastric Bypass



“Intraoperative staple line bleeding was significantly reduced in our study group, as demonstrated by the significantly lower use of clip instruments in group 1 versus group 2.”

“The avoidance of a single severe complication would make its [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] use worth it.”

Miller KA, Pump A. Use of bioabsorbable staple reinforcement material in gastric bypass: a prospective randomized clinical trial. *Surgery for Obesity & Related Diseases* 2007;3(4):417-422.

- 24 patients with GORE® SEAMGUARD® Product
 - No leaks
 - Higher post-op hemoglobin*
 - Fewer clips used*
 - No fistulas

“The use of glycolide copolymer staple-line reinforcement sleeves in patients undergoing laparoscopic gastric bypass is safe and significantly reduces staple-line bleeding sites and may reduce the incidence of gastrointestinal hemorrhage.”

Nguyen NT, Longoria M, Welbourne S, Sabio A, Wilson SE. Glycolide copolymer staple-line reinforcement reduces staple site bleeding during laparoscopic gastric bypass. A prospective randomized trial. *Archives of Surgery* 2005;140(8):773-778.

- 17 patients with GORE® SEAMGUARD® Product
 - Lower mean blood loss*
 - Less time to staple line hemostasis*
 - Fewer staple line bleeding sites*
 - No transfusions

“The use of intraluminal bioabsorbable glycolide copolymer staple-line reinforcement significantly reduces the incidence of gastrojejunal bleeding.”

Saber AA, Scharf KR, Turk A, Mohamed EH, Martinez RL. Early experience with intraluminal reinforcement of stapled gastrojejunostomy during Roux en Y gastric bypass. *Obesity Surgery* 2008;18(5):525-529.

- 40 patients with GORE® SEAMGUARD® Product
 - No bleeding (significantly reduced compared to control group)*
 - Reduced stricture rate*

“Our results indicate that the use of circular staple line reinforcement at the gastrojejunal anastomosis in patients undergoing laparoscopic gastric bypass significantly decreases the incidence of anastomotic stricture and a composite end point of all anastomotic complications. On this basis, strong consideration should be given to the routine use of [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] in patients undergoing laparoscopic divided gastric bypass with a circular stapled gastrojejunal anastomosis.”

Jones WB, Myers KM, Traxler LB, Bour ES. Clinical results using bioabsorbable staple line reinforcement for circular staplers. *American Surgeon* 2008;74(6):462-468.

- 138 patients with GORE® SEAMGUARD® Product
 - Reduced bleeding rate*
 - Reduced leak rate*
 - Significantly reduced stricture rate*

“In our opinion, SLR (staple line reinforcement) can therefore be used in LRYGBP procedures not only with the objective of decreasing gastrointestinal bleeding but also with the aim of reducing the postoperative IH (internal hernias) rate.”

Ahmed AR, Rickards G, Husain S, Johnson J, O'Malley W, Boss T. Bioabsorbable glycolide copolymer staple-line reinforcement decreases internal hernia rate after laparoscopic Roux-en-Y gastric bypass. *Obesity Surgery* 2008;18(7):797-802.

- 354 patients with GORE® SEAMGUARD® Product
 - Significantly reduced internal hernia rate*



PERFORMANCE
through innovation

"Since we started using [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement], we have no complications in relation to stomach section bleeding."

Rodríguez Velasco G, Mendía Conde E, Peromingo Fresneda R, *et al.* Use of Seamguard in laparoscopic gastric bypass to decrease postsurgical bleeding. Abstract presented at the 9th SECO Congress (Spanish Society for the Surgery of Obesity); March 7-9, 2007; Getafe-Madrid. *Obesity Surgery* 2007;17(2):282.

- 80 patients with GORE® SEAMGUARD® Product
- No bleeding (Reduced compared to control group)*

"This study demonstrates that bioabsorbable glycolide copolymer staple line sleeves is safe and effective in prevention of intraoperative staple line bleeding and postoperative GI hemorrhage in 44 intra-abdominal GI operations (22 Roux-en-Y procedures)."

Nguyen NT, Longoria M, Chalifoux S, Wilson SE. Bioabsorbable staple line reinforcement for laparoscopic gastrointestinal surgery. *Surgical Technology International* 2005;XIV:107-111.

- 22 patients with GORE® SEAMGUARD® Product undergoing Roux-en-Y gastric bypass
- No leaks, intra-abdominal abscesses, or hemorrhages

"[GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] may be a possible way to prevent retro Roux hernias in patients undergoing laparoscopic Roux-en-Y gastric bypass."

Allmang MT, Renton DB, Narula VK, *et al.* Internal hernias after laparoscopic Roux-en-Y gastric bypass are prevented with Bioabsorbable SEAMGUARD® Material. Poster presented at the 2007 Scientific Session of the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES); April 18-22, 2007; Las Vegas, NV. *Surgical Endoscopy* 2007;21 (Supplement 1):S372.

- 417 patients with GORE® SEAMGUARD® Product
- No internal hernias

"Use of staple line reinforcement reduced the stricture rate by 92.9%."

"The results here show that use of bioabsorbable circular staple line reinforcement on gastrojejunal anastomoses in laparoscopic RYGB significantly reduces the incidence of anastomotic stricture. Standard use of the bioabsorbable reinforcement on circular staple line anastomoses could be part of the solution to the most common complication in laparoscopic gastric bypass."

Traxler LB, Scott JD, Cobb W IV, Carbonell A, Bour ES. Reduction in anastomotic strictures using bioabsorbable circular staple line reinforcement in laparoscopic gastric bypass. Presented at the 27th Annual Meeting of the ASMBS; June 21-26, 2010; Las Vegas, NV. *Surgery for Obesity & Related Diseases* 2010;6(3)Supplement 1:S5. PL-113.

- 596 patients with GORE® SEAMGUARD® Product
- Significantly reduced stricture rate*

"Non absorbable Peri-Strips resulted in erosion."

"[GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] is preferable because it does not erode."

Yu S, Jastrow K, Clapp B, *et al.* Foreign material erosion after laparoscopic Roux-en-Y gastric bypass: findings and treatment. *Surgical Endoscopy* 2007;21(7):1216-1220.

- 228 patients with GORE® SEAMGUARD® Product
- No erosion (significantly reduced compared to SYNOVIS® PERI-STRIPS DRY® Product)

*Compared to patients with no staple line reinforcement



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