

Selected scientific literature for Colorectal Procedures



"It has been used in obesity surgery and pulmonary surgery as staple line reinforcement with good results. As such, we believe that [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] may be ideal to use in colorectal surgery as an aid during the healing process of an anastomosis and may help prevent anastomotic bleeding and staple line disruption."

"There were no clinical leaks, no strictures, and no bleeding in our early postoperative follow-up period. The use of [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] as a staple line reinforcer appears to be safe and may be useful in preventing anastomotic leakage, bleeding, and intraluminal stenosis."

Franklin ME Jr, Berghoff KE, Arellano PP, Trevino JM, Abrego-Medina D. Safety and efficacy of the use of bioabsorbable Seamguard in colorectal surgery at the Texas Endosurgery Institute. *Surgical Laparoscopy, Endoscopy & Percutaneous Techniques* 2005;15(1):9-13.

- 30 patients with GORE® SEAMGUARD® Product
- No leaks, bleeding, or strictures

"Cost of [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] may be offset by avoiding extra time to oversee bleeding sites and the possible cost of treating intraabdominal hemorrhage that may include blood transfusion and prolongation of hospital stay."

de la Portilla F, Zbar AP, Rada R, et al. Bioabsorbable staple-line reinforcement to reduce staple-line bleeding in the transection of mesenteric vessels during laparoscopic colorectal resection: a pilot study. *Techniques in Coloproctology* 2006;10(4):335-338.

- 25 patients with GORE® SEAMGUARD® Product
- No bleeding or other complications during the surgical procedure

"[GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] appears to aide in preventing leaks, bleeding and may result in a more widely patent anastomosis [in laparoscopic colorectal surgery]."

Franklin ME, Glass JL, Trevino JM, Arellano PP, Abrego-Medina D. Laparoscopic colorectal surgery and the use of staple line reinforcement materials. 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):S35.

- 29 patients with GORE® SEAMGUARD® Product
- No leaks, bleeding, strictures, or other complications

"The use of [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] in colorectal open and laparoscopic surgery may result in a lower incidence of anastomotic leakage."

"This showed that [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] material is safe and may reduce the rate of postoperative anastomotic leakage, especially in challenging cases."

"The overall clinical leak rate of 3.4% was similar to previously reported rates for all colon anastomoses, but it was markedly lower than the rates of about 6%–12% or higher usually associated with low resections."

Portillo G, Franklin ME Jr. Clinical results using bioabsorbable staple-line reinforcement for circular stapler in colorectal surgery: a multicenter study. *Journal of Laparoendoscopic & Advanced Surgical Techniques* 2010;20(4):323-327.

- 117 patients with Circular GORE® SEAMGUARD® Product
- 3.4% leak rate, however they all occurred in very low resections (6 cm or less)



PERFORMANCE
through innovation

“The initial data is very promising and has encouraged us to continue using this device [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] on further patients.”

Franklin JR, Portillo G, Glass JL, Gonzalez J Jr. The use of bioabsorbable staple line reinforcement for circular stapler (BSGC “Seamguard”) in colorectal surgery. Poster presented at the 15th International Congress of the European Association for Endoscopic Surgery (EAES); July 4-7, 2007; Athens, Greece. *Surgical Endoscopy* 2008;22(Supplement 1): S75. Abstract P186.

- 20 patients with Circular GORE® SEAMGUARD® Product
 - No leaks, bleeding, or anastomotic stenosis

“Several authors agree the use of [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] seems to be safe and may be useful in preventing anastomotic leakage, bleeding, and potentially intraluminal stenosis.”

“The inflammatory response was felt to be significantly less than that normally seen at this postoperative phase.”

Franklin ME, Portillo G, Treviño JM, et al. The use of bioabsorbable staple line reinforcement for circular stapler (BSG “Seamguard”) in colorectal surgery. Initial experience. *Surgical Laparoscopy, Endoscopy & Percutaneous Techniques* 2006;16(6):411-415.

- 5 patients with Circular GORE® SEAMGUARD® Product
 - No leaks, bleeding, or anastomotic stenosis

“Our study showed very favorable results from using [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] for colorectal anastomosis. There were not any leaks when [GORE® SEAMGUARD® Bioabsorbable Staple Line Reinforcement] was used and the hemostasis was excellent.”

Paravasthu S Ramanujam, MD, Kridhna P Ramanujam, BA Medical Student M, Kathleen M Griffin, RN. Surgical outcomes after colonic and colon rectal anastomosis with and without using buttressing material SEAMGUARD® (GORE): A retrospective study of 301 cases by a single surgeon. Abstract presented at the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) Scientific Session & Postgraduate Course; March 31-April 2, 2011; San Antonio, TX. *Surgical Endoscopy* 2011;23(3)Supplement 1:S265.

- 69 patients with Circular GORE® SEAMGUARD® Product
 - No leaks or bleeding
- 232 patients with no SLR
 - 5 leaks (2.2% leak rate), 21 bleeding incidents (9%)



W. L. GORE & ASSOCIATES, INC.

Flagstaff, AZ 86004

+65.67332882 (Asia Pacific) 800.437.8181 (United States)
00800.6334.4673 (Europe) 928.779.2771 (United States)

goremedical.com

Refer to *Instructions For Use* for a complete description of all warnings, precautions, and contraindications. ^{Rx only}

Products listed may not be available in all markets.

GORE®, PERFORMANCE THROUGH INNOVATION, SEAMGUARD®, and designs are trademarks of W. L. Gore & Associates.

© 2011 W. L. Gore & Associates, Inc. AM3029-EN2 AUGUST 2011