HARMONIC ACE®+7 Shears—unmatched precision, multifunctionality and now stronger large vessel sealing

With powerful sealing ability, HARMONIC ACE®+7 Shears are designed to provide strong reliable seals on large vessels in colorectal surgical procedures.

Stronger large vessel sealing

- HARMONIC ACE®+7 was shown to reliably seal the inferior mesenteric artery (IMA)\(^1\) and inferior mesenteric vein (IMV) \((n=40)\)^2
- HARMONIC ACE®+7 had **100% hemostasis when sealing the inferior mesenteric artery (IMA) \((n=40)\)^1**
- HARMONIC ACE®+7 had **98% hemostasis when sealing the inferior mesenteric vein (IMV) \((n=40)\)^2**

Large-Vessel Sealing in Laparoscopic Colectomy with an Ultrasonic Device
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4854609/
Committed to colorectal surgery, dedicated to providing **consistent and better performance even in the most critical steps** of the procedure.

**HARMONIC ACE®+7 Shears with Advanced Hemostasis:**
Providing world-class precision with unique dissection experience, multifunctionality and secure and reliable sealing. HARMONIC ACE®+7 Shears is the first and only purely ultrasonic energy device to provide reliable hemostasis when ligating large vessels including IMA and other abdominal vasculature up to 7mm in diameter.

**The ECHELON FLEX™ GST System with innovative Gripping Surface Technology:** Providing greater stability for potentially less tissue trauma during the transection, may eliminate 1 reload per procedure due to less tissue slippage during firing.

**ETHICON ENDO-SURGERY® Endoscopic Intraluminal Circular Stapler (CDH):** Designed to deliver optimal compression necessary for a secure anastomosis and effective perfusion to promote healing.

**CONTOUR® Curved Cutter Stapler:** With a 21% smaller head width than Covidien’s Radial Reload with Tri-Staple and a 13% larger jaw aperture than Radial Reload, CONTOUR Curved Cutter Stapler helps you navigate through tight pelvic regions and facilitates excellent maneuverability.

**STRATAFIX™ Symmetric PDS™ Plus Knotless Tissue Control Device:** Delivering more consistency, more security and more efficiency than traditional sutures. Plus SUTURES have been shown in vitro to inhibit colonization of the suture for 7 days or more and proven in vivo to kill bacteria on the suture known to be associated with SSIs.

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3. Internal market analysis as of 1/31/2014.
4. In a benchtop test using 5- to 7mm porcine carotids that compared median burst pressure for HARMONIC ACE®+7 (1419.5mm Hg) and LigaSure™ 5mm Blunt Tip (591.0mm Hg), P<.001. Data on file (PRC064872B). (C1587); vs HARMONIC ACE® without Adaptive Tissue Technology (C1197).
5. In benchtop test using 5–7mm porcine carotids that compared median burst pressures for HARMONIC ACE®+ 7 (1716.5mmHg) vs. Thunderbeat™ (1528.3mmHg) (p=0.0226); HARMONIC ACE®+7 (1419.5mmHg) vs. LigaSure™ Advance (670.5mmHg) (p<0.001); and HARMONIC ACE®+7 (1419.5mmHg) vs. LigaSure™ 5mm Blunt Tip (591.0mmHg) (p<0.001). Data on file. Ethicon Endo-Surgery, Inc. (PRC064872B, PRC064872B).
6. As per IFU (C1585).
7. Benchtop testing on porcine stomach tissue. Surgeons (n=19) fired each instrument/reload once: PSE60A/ECR60G, 030449/030459, and EGIAUSTND/EGIA60AMT. Median reduction of distal tip motion was 88%, range of reduction was 71% to 95%.
8. Benchtop testing in porcine stomach tissue. Mean tissue movement from after clamping on tissue to after firing ECHELON FLEX™ Powered Plus Stapler (PSEE60A) and ECHELON Reload with GST vs ENDO GIA™ ULTRA Handle (EGIA60XT) and Endo GIA™ Reload with Tri-Staple™ Technology at 3.3 and 4.0mm tissue thicknesses (3.3mm: GST60T 0.642mm vs EGIA60XT 4.806mm p<0.001; 4.0mm: GST60T 0.654mm vs EGIA60XT 5.116mm p<0.001). Ethicon US, LLC. (CONTOUR® head width, 2.5in/64mm), Covidien, Endo GIA™ Radial Reload with Tri-Staple™ Technology Technical Guide. (Radial Reload head width, 3.2in/81mm).
9. Compared to traditional sutures.
10. Compared to traditional sutures.
11. Compared to traditional sutures.
12. Compared to traditional sutures.
13. In an animal model.
15. In an animal model.