



## 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)<sup>1</sup> and inferior mesenteric vein (IMV) (n=40)<sup>2</sup>
- HARMONIC ACE®+7 had **100% hemostasis when sealing the inferior mesenteric artery (IMA)** (n=40)<sup>1</sup>
- HARMONIC ACE®+7 had **98% hemostasis when sealing the inferior mesenteric vein (IMV)** (n=40)<sup>2</sup>

### Large-Vessel Sealing in Laparoscopic Colectomy with an Ultrasonic Device

Gustavo Plasencia, Kurt Van der Speeten, Piet Hinoul, Jennifer A. Kelch, Jonathan Batiller, Kimberley S. Severin, Michael L. Schwiers, Tim Rockall, *Journal of the Society of Laparoscopic Surgeons*, (Apr-Jun 2016)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4854609/>

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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<sup>3</sup> to provide reliable hemostasis<sup>4,5</sup> when ligating large vessels including IMA and other abdominal vasculature up to 7mm in diameter.<sup>6,7,8</sup>



**The ECHELON FLEX™ GST System with innovative Gripping Surface Technology:** Providing greater stability for potentially less tissue trauma during the transection;<sup>9</sup> may eliminate 1 reload per procedure due to less tissue slippage during firing.<sup>10</sup>



**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<sup>11</sup> and a 13% larger jaw aperture than Radial Reload,<sup>12</sup> 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,<sup>13</sup> more security and more efficiency<sup>14</sup> 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.<sup>15</sup>

**Ethicon provides a complete solution for colorectal surgery. To learn more, contact your sales representative or visit [ethicon.com/colorectal](http://ethicon.com/colorectal).**

<sup>1</sup> As shown in an observational study. First pass hemostasis on IMA (100%). Plasencia G, et al. Large-Vessel Sealing in Laparoscopic Colectomy with an Ultrasonic Device. JLS. 2016 Apr-Jun; 20(2) <sup>2</sup> As shown in an observational study. First pass hemostasis on IMV (97.5%). Plasencia G, et al. Large-Vessel Sealing in Laparoscopic Colectomy with an Ultrasonic Device. JLS. 2016 Apr-Jun; 20(2) <sup>3</sup> Internal market analysis as of 1/31/2014. <sup>4</sup> In a benchtop test using 5- to 7mm porcine carotids that compared median burst pressure for HARMONIC ACE®+7 (1419.5mmHg) and LigaSure™ 5mm Blunt Tip (591.0mmHg), P<.001. Data on file (PRC064872B). (CI587); vs HARMONIC ACE® without Adaptive Tissue Technology (CI197). <sup>5</sup> In benchtop test using 5-7mm porcine carotids that compared median burst pressure for HARMONIC ACE®+7 (1419.5mmHg) and LigaSure™ 5mm Blunt Tip (591.0mmHg) (p<.0001). Data on file (PRC064872B). (CI587) <sup>6</sup> In benchtop studies 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<.0001); and HARMONIC ACE®+7 (1419.5mmHg) vs. LigaSure™ 5mm Blunt Tip (591.0mmHg) (p<.0001). Data on file. Ethicon Endo-Surgery, Inc. (PRC064872B, PRC064872B). <sup>7</sup> As per IFU (CI585) <sup>8</sup> SPED 20140701 HARMONIC ACE®+7 <sup>9</sup> 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%. <sup>10</sup> 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 (EGIAUSTND) and Endo GIA™ Reload with Tri-Staple™ Technology at 3.3 and 4.0mm tissue thicknesses (3.3mm: GST60T 0642mm vs EGIA60AMT 4.806mm p<.0001; 4.0mm: GST60T 0654mm vs EGIA60AXT 5.116mm p<.0001). <sup>11</sup> 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). <sup>12</sup> Ethicon US, LLC. (CONTOUR® 18.5mm full jaw opening). Covidien, Endo GIA™ Radial Reload with Tri-Staple™ Technology Technical Guide (Radial reload 16.3mm jaw opening). <sup>13</sup> Compared to traditional sutures. <sup>14</sup> Compared to traditional sutures. <sup>15</sup> In an animal model