

Medtronic

The smart Signia™ stapling system

Reducing waste is smart.

A study compared the amount of waste created by the multiuse smart Signia™ stapling system and the single-use Ethicon Echelon Flex™* stapler.^{1,†} Here's what researchers found.



Waste is a problem for health systems – and the Earth

730,500

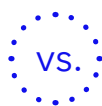
tons of waste is produced each year in U.S. ORs alone¹



Two staplers. Two different approaches.

300

procedures with **one** multiuse Signia™ stapler handle¹



1

procedure with **one** single-use Ethicon Echelon Flex™* stapler¹

Switching to the multiuse Signia™ stapling system can help significantly reduce waste vs. Echelon Flex™* stapler after just four procedures^{1,†}

40%

waste reduction in sleeve gastrectomies^{1,†}

70%

waste reduction in gastric bypasses^{1,†}

62%

waste reduction in VATS lobectomies^{1,†}

Less waste.^{1,†,‡} More consistent staple lines.^{2-4,§,Ω}



Switching to the Signia™ stapling system can help reduce OR waste^{1,†,‡} – and deliver more consistent staple lines for greater staple line security.^{2-4,§,Ω}

3X 
FEWER
malformed staples^{5,§,††} vs.
Ethicon Echelon Flex™ stapler



To learn more about how you can trim waste in the OR, read the full paper – or contact your sales rep. »

† Total waste based on device component weights and expected circulation ratio of each component per procedure.

‡ Waste reduction based on laparoscopic sleeve gastrectomies, gastric bypasses, and VATS lobectomies.

§ Preclinical results may not correlate with clinical performance in humans.

Ω Compared to manual and fixed-speed powered staplers.

†† Compared to Ethicon Echelon Flex™ powered stapler with GST technology.

1. Meissner M, Lichtnegger S, Gibson S, Saunders R. Evaluating the Waste prevention potential of a multi- versus single-use surgical stapler. *Risk Manag Healthc Policy*. 2021;14:3911-3921.
2. Based on internal test report #R2146-173-0, ASA verification testing with slow speed force limit evaluation. 2015.
3. Based on internal test report #R2146-151-0, Powered stapling firing speed DOE analysis and ASA parameters. 2015.
4. Based on internal report #RE00218740, Signia™ stapling adaptive firing technology data calculations and references. Aug. 7, 2019.
5. Based on internal test report #PCG-028, Signia™ stapling system competitive claims. March 27, 2017.

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