

## Research, evidence and access

# Ethicon is at the forefront of advancing surgical care to help patients with obesity **live longer and better**

**Each piece of evidence moves bariatric surgery forward to support optimal patient care through safety, effectiveness and access**

## Major areas of research and evidence



### Obesity-related disease state research

- Mechanisms of action
- Glycemic control in type 2 diabetes
- Complications with diabetes
- Cardiovascular disease
- Osteoarthritis



### Health economics of obesity and bariatric surgery

- Burden of obesity and obesity-related disease
- Cost-effectiveness of bariatric surgery
- Characterization of surgically open patients within bariatric surgery eligible populations



### Products to improve outcomes in bariatric surgery

- Biosurgery
- Energy
- Staplers
- Wound closure



### Emerging bariatric and metabolic procedures

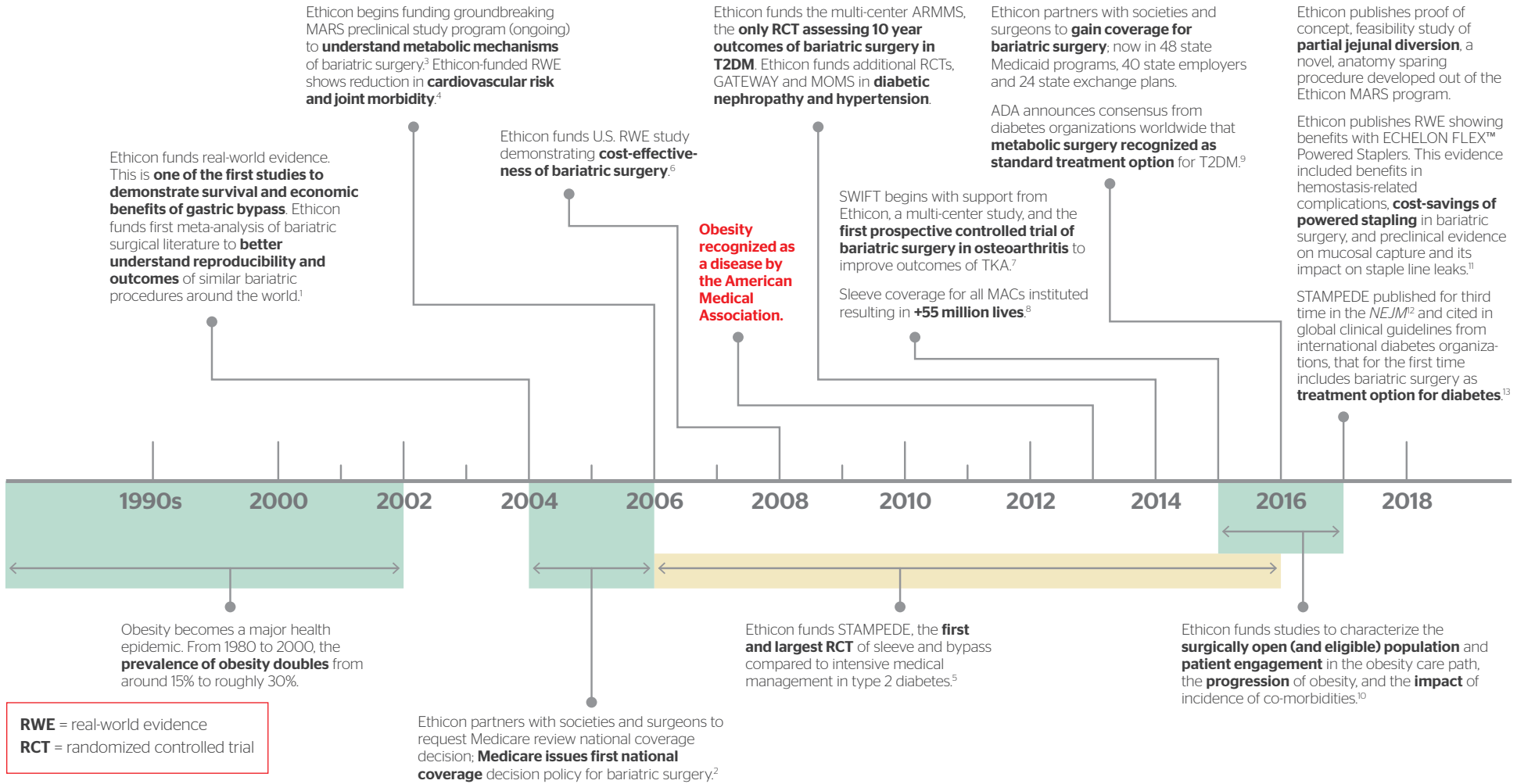
- Sleeve gastrectomy
- Partial jejunal diversion
- Duodenal switch



Safety + Effectiveness + Access = **Optimal patient care**

# Big ideas start small: How evidence evolves and change takes shape

Ethicon is committed to evidence, because we are focused on improving patient care and outcomes.



**1** Buchwald H, Avidor Y, Braunwald E, et al. Bariatric surgery. A systematic review and meta-analysis. *Journal of the American Medical Association*. 2004; 292(14): 1724-37 **2** Decision Memo for Bariatric Surgery for the Treatment of Morbid Obesity (CAG-00250R) **3** Kaplan LM, et al. *Bariatric Times*. 2012;9(5):12-13 **4** Sampalis et al. Impact of bariatric surgery on cardiovascular and musculoskeletal morbidity. *Surgery for Obesity and Related Diseases*;2(6); article: 587-591 **5** Schauer PR, Sangeeta KR, Wolski K, et al. bariatric surgery versus intensive medical therapy in obese patients with diabetes. *N Engl J Med*. 2012 Apr 26;366(17):1567-76 **6** Cremieux PY, Buchwald H, Shikora SA, et al. A study on the economic impact of bariatric surgery. *American Journal of Managed Care*. 2008; 14:589-596 **7** Surgical Weight-Loss to Improve Functional Status Trajectories Following Total Knee Arthroplasty (SWIFT Trial) (SWIFT). (2015). Retrieved from <http://clinicaltrials.gov/ct2> (Identification No. NCT02598531) **8** Centers for Medicare & Medicaid Services. July 28, 2015. <https://www.cms.gov/newsroom/MediaReleaseDatabase/Press-releases/2015-Press-releases-items/2015-07-28.html> **9** Rubino F, Nathan DM, Eckel RH, et al. Metabolic Surgery in the Treatment Algorithm for Type 2 Diabetes: A Joint Statement by International Diabetes Organizations. *Diabetes Care* 2016 Jun; 39(6): 861-877. **10** US Report Out. Bariatric Surgically Open Patient Profiling Initiative. *Global Business Insights*. 2016 **11** Thompson, Suzanne. "How evidence is shaping the future of metabolic surgery." International Federation for the Surgery of Obesity and Metabolic Disorders, 30 August 2017, Westminster, London **12** <http://www.nejm.org/doi/full/10.1056/NEJMoa1600869> **13** Schauer PR, Bhatt DL, Kirwan JP, et al. Bariatric Surgery versus Intensive Medical Therapy for Diabetes – 5-Year Outcomes. *N Engl J Med* 2017;376:641-51