SAFE | EFFECTIVE | DURABLE | VERSATILE

stratta

Stretta therapy is a safe and effective, minimally invasive procedure that significantly reduces symptoms of GERD and esophageal acid exposure, and improves quality of life for chronic GERD sufferers.

STRETTA FILLS AN UNMET **NEED IN A VARIETY OF GERD PATIENTS**

- Patients who don't respond completely to, or are intolerant of PPIs
- Patients with chronic GERD who don't wish to have surgery or an implant
- Post-gastric sleeve/bypass patients with GERD
- Post-Nissen patients with recurring reflux
- Non-erosive reflux (NERD) patients
- Laryngopharyngeal reflux (LPR) patients

Because Stretta doesn't alter the anatomy or introduce implants, it can be utilized in a variety of patient groups, and doesn't preclude other treatment options.

LANDMARK STRETTA META-ANALYSIS 2017 - 28 STUDIES, ~2,500 PATIENTS

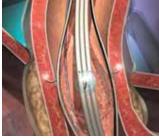
Large study included 2,468 Patients, up to 10-yrs follow-up (avg 25 months).

Results showed that Stretta significantly and consistently improved GERD symptoms and physiological parameters noted below:

- Significant improvement in **GERD HRQL scores**
- Signficant reduction in heartburn symptom scores
- Majority of pateints off proton pump inhibitors (PPI's)
- Significant healing of erosive esophagitis
- Significant reduction in esophageal acid exposure
- Low adverse event rate of <1%

Systematic Review and Meta-Analysis of Controlled and Prospective Cohort Efficacy Studies of Endoscopic Radiofrequency for Treatment of Gastroesophageal Reflux Disease. Fass R, et al. Surg Endosc. 2017 Dec;31(12):4865-4882.

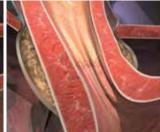
HOW STRETTA WORKS



CONTROLLED. LOW **ENERGY DELIVERED TO TISSUE**



MULTI-LEVEL TREATMENT POWER, NON-ABLATIVE RF IMPROVES MUSCLE OF THE LES AND GASTRIC CARDIA



LES MUSCLE AND BARRIER **FUNCTION SIGNIFICANTLY IMPROVED**

Stretta therapy is an endoscopically-guided, minimally invasive, outpatient procedure performed in approximately 60 minutes. The Stretta Catheter, powered by the MDRF1 Generator, is an innovative design for precise and safe delivery of radiofrequency energy to the lower esophageal sphincter (LES), and gastric cardia.

STRETTA - THE NUMBERS

86%

PATIENTS OFF MEDS - 4 YRS

DURABLE RESULTS WITH FOLLOW UP STUDIES UP TO **15 YEARS**

<1%

COMPLICATION RATE

35,000+

PROCEDURES

15 Year Data

LASTING RESULTS!

- 72% normalized GERD HRQL
- Regression of pre-existing Barrett's observed

SAGES CLINICAL SPOTLIGHT REVIEW GUIDELINE GIVES STRETTA STRONGEST RECOMMENDATION

Quality of Evidence: (+++)

ASGE GUIDELINES ON ENDOSCOPIC MANAGEMENT OF GERD





STRETTA FOR GERD | RF MECHANISMS OF ACTION

DECREASED ACID EXPOSURE

"Analyses of symptom improvement vs. acid exposure suggested that symptom improvement was associated with decreased esophageal acid exposure...

A comparison of patients before vs. after treatment indicated that acid exposure decreased significantly (median decrease, -2.4%; P=0.01) between baseline and 12 months for all treated patients (both initial active treatment and crossed over patients)."

Corley DA, et al. Improvement of gastroesophageal reflux symptoms after radiofrequency energy: a randomized, sham-controlled trial. Gastroenterology. 2003 Sep;125(3):668-76.

"At 12 months, the mean HRQL scores of those off medications, the LES basal pressure, the 24-h pH scores, and the proton pump inhibitor daily dose consumption were significantly improved..."

Aziz AM, et al. A prospective randomized trial of sham, single-dose Stretta, and double-dose Stretta for the treatment of gastroesophageal reflux disease. Surg Endosc. 2010 Apr;24(4):818-25.

DECREASED TISSUE COMPLIANCE-NO FIBROSIS

"Stretta improved GERD symptoms and decreased GEJ compliance. Decreased GEJ compliance, which reflects altered LES neuromuscular function, may contribute to symptomatic benefit by decreasing refluxate volume."

Arts J, et al. A double-blind sham-controlled study of the effect of radiofrequency energy on symptoms and distensibility of the gastro-esophageal junction in GERD. Am J Gastroenterol. 2012 Feb;107(2):222-30.

INCREASED WALL THICKNESS

" EUS demonstrates that LES muscle is significantly thickened after RF delivery...thickening may result in reduced compliance of the GE junction and contribute to its mechanism of action."

Chang KJ, Utley DS. Endoscopic ultrasound (EUS) in-vivo assessment of radiofrequency (RF) energy delivery to the gastroesophageal (GE) junction in a porcine model [abstract]. Gastrointest Endosc 2001;53:AB4191.

DECREASED TLESRSINCREASED LES PRESSURE

"RFe reduced the rate of postprandial transient LOS relaxations from 6.8 (5.7-8.1) (median (interquartile range) per hour to 5.2 (4.2-5.8) per hour (p<0.01), and increased mean basal LOS pressure from 5.2 (SEM 0.3) mm Hg to 8.0 (SEM 0.4) mm Hg (p<0.01)."

Tam WC, et al. Delivery of radiofrequency energy to the lower oesophageal sphincter and gastric cardia inhibits transient lower oesophageal sphincter relaxations and gastro-oesophageal reflux in patients with reflux disease. Gut. 2003 Apr;52(4):479-85.



REDUCTION IN ESOPHAGEAL ACID EXPOSURE

- Fass et al. 2017 Surg Endosc
- Perry et al. 2012 Surg Lap, Endo & Perc Tech
- Aziz et al. 2010 Curr Opin Gastroenterol - RCT
- Arts et al. 2007 Digestive Disease Science
- Mattar et al. 2006 Surg Endosc
- Lufti et al. 2005 Surg Endosc
- Cipoletta et al. 2005 Surg Endosc
- Torquati et al. 2004 Surg Endosc
- Triadafilopoulos et al. 2004
 - Surg Endosc
- Houston et al. 2003 Surg Endosc
- Richards et al. 2003
 - Annals of Surgery
- Triadafilopoulos et al. 2002
- Gastrointest Endosc
- Corley et al. 2003 Gastroenterology
 RCT

REDUCTION IN TRANSIENT LES RELAXATIONS

- Arts et al. 2012 Am Journal of Gastroenterol - RCT
- Tam et al. 2003 Gut
- Kim et al. 2003 Gastrointestinal Endosc

DECREASED TISSUE COMPLIANCE WITHOUT FIBROSIS

 Arts et al. 2012 - Am Journal of Gastroenterol - RCT

INCREASE IN LES WALL THICKNESS

- DiBaise et al. 2002
 - Am Journal of Gastroenterol
- Chang et al. 2001
 - Gastrointestinal Endosc
- Kim et al. 2003
 - Gastrointestinal Endosc

INCREASED LES PRESSURE

- Aziz et al. 2010
- Curr Opin Gastroenterol RCT
- Meier et al. 2007
- Scandinavian Journal of Gastro
- Tam et al. 2003 Gut
- Utley et al. 2000
 - Gastrointest Endosc



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