



X-ray Grids



Radiography System



Detector





Computed Radiography



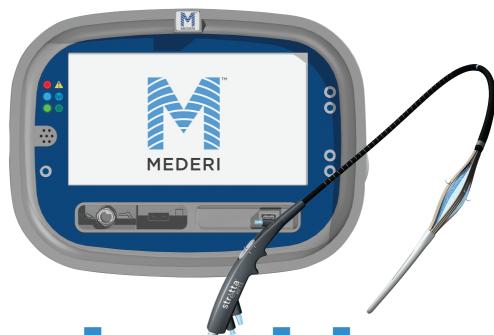
X-ray Accessories



Diagnostics



RF Treatment



strătta_®

4년 이상 개선 효과 10년 이상 지속

생활습관 개선과 약물치료의 한계극복

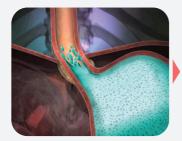
최소침습적인 외래환자 치료법

수<mark>술보다</mark> 빠른 일상생활 복귀

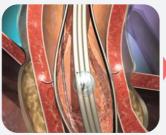
수술치료 후에도 STRETTA 시술가능 60분내외의 간단한 시술 1%미만의 합병증

치료워리

LES (하부식도괄약근) 와 Gastric cardia(위분문) 부위에 낮은 온도의 고주파를 60초 동안 근육층에 전달하여 치료를 진행하며 근육층의 리모델링을 통한 수축 이완 능력 개선하여 위산의 역류를 방지하는 원리이다.



LES(하부식도괄약근)등의 기능 악화로 위식도 역류발생



Stretta 카테터 경구 삽입으로 고주파 에너지 전달



그림과 같은 부위 총 6레벨의 위치에 고주파 전달 치료 진행



하부식도괄약근(LES)의 리모델링을 통한 수축 이완 능력 개선 (위산의 역류 방지)

PATIENT SELECTION CRITERIA - THE SPECTRUM OF GERD TREATMENTS

Medications (PPIs)

stretta

ANTI-REFLUX SURGERY:

- Transoral Fundoplication
- Surgically Implanted Devices
- Laparascopic Fundoplication

70% Respond to Meds

• 가벼운 GERD 증상의 환자

- 하부식도괄약근의 기능 수행에 문제가 없는 환자
- 치료에 대한 의지가 강한 환자
- 치료생활 개선에 순응하는 환자
- 약물치료에 순반응하는 환자
 - 부작용이 없는 환자
 - 약물 상호작용이 없는 환자

25-30% Refractory GERD

- 일반적인 GERD 증상의 환자
- 2Cm 미만의 식도열공탈장 환자
- 약물치료에 부분적인 반응만 보이는 화자
- 치료생활 개선이 힘든 환자
- 장기간의 약물치료에 대하여 순반응 하지 않는 환자
 - 부작용이 있는 환자
 - 약물 상호작용이 있는 환자
- 비만치료 수술을 받은 환자중 GERD 증상이 있는 환자
- 비미란성 위식도 역류질환 환자
- 항역류 수술을 받았음에도 GERD 증상이 있는 환자

5% Have Anti-Reflux Surgery

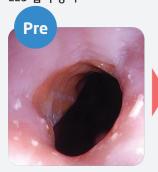
- 극심한 GERD 증상
- 장기간 약물치료에 대하여 순반응 하지 않는 환자
 - 부작용이 있는 환자
 - 약물 상호작용이 있는 환자
- Stretta 치료를 받은 환자중 GERD 증상이 있는 환자
- 미란성식도염 환자
- 2Cm 이상의 식도열공탈장 환자(ARS)

Special Indication 경구 위저부 주름술

- 2Cm 미만의 식도열공탈장 환자
- 35 미만의 체질량 지수(BMI)의 환자

STRETTA Results & Efficacy

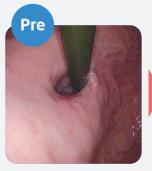
Esophageal acid exposure 식도 산 역류 노출 개선, LES 순간적 이완 상태 개선, fibrosis 없이 조직순응도 감소, LES 벽 두께 증가, LES 압력 증가



Esophageal view, LES pre-Stretta: poor tone with significant opening



Esophageal view, LES post-Stretta: immediate closure of LES



Cardia view, LES pre-Stretta: incompetence of sphincter



Cardia view, LES post-Stretta: immediate closure effect

STRETTA - THE NUMBER

86%
PATIENTS OFF MEDS - 4YRS

4-10

YEARS DURABLE SYMPTOM RELIEF

<1% COMPLICATION RATE

40+
STUDIES

25,000+ PROCEDURES

10-Yr Data
LASTING RESULTS!

- 72% normalized GERD HRQL
- PPI use reduced by ≥50% in 64% of Patients
- 41% off PPIs entirly
- Regression of pre-existing Barrett's was observed



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GERD is a condition that develops when reflux of scenach conners course trouble-one symptomic site, paralman and regargitation) or adverse events (e.g., crossive copylagiins)." In a recent systematic review, the prevalence of GERD in the United States was estimated to be 18th to another and regargations." Organization visits for the evaluation of GERD have increased significantly over time. It is also the most common inclination for ECD in the United States." In addition to its impact on quality of

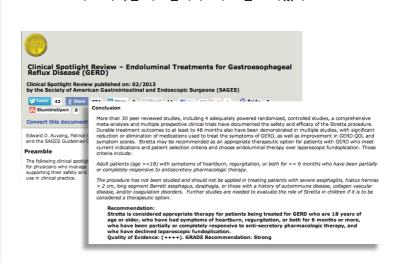
Copyright © 2015 by the American Society for Gastrol 0016-5107/536.00 http://dx.doi.org/10.1016/Lole.2015.02.021 life,⁹ the numerous adverse events of chronic GER such as esophageal stricture formation, Barren metaplasta, and esophageal adenocarcinoma, necessita

INDICATIONS FOR ENDOSCORIC EVALUATIO

A diagnosi of GDBI can be made based on organization and conferend but a fundable response to authorizen section and and conferend but a fundable response to authorizen medicul disrep; *** It is important to not that epitical methods of the patient's bettery to consistent with highed or occomplicated OBBI, an attail stud of empire medicul methods of the patient's better of the consistent and patient in most patient. The short patient and should be consistent in patients who have improved as should be consistent in patients who have improved as the consistent in patients who have improved as the consistent in patients who have improved a fundamental of the consistent in patients and the latest the Ritteria expectage (RE). ** Bids factors for RITTERIA expectage (RE). ** Bids fa

The selections for EGD in princes with GBDs and the Indian I finish : EGD may be necessary to detect the Indian I finish : EGD may be necessary to detect the Indian I finish : EGD may be necessary to detect the Indian I finish I fi

ASGE (미국소화기내시경학회)에서 2015년 6월 " 위식도역류질환(GERD) 치료의 새로운 가이드라인으로 STRETTA가 효과적인 치료법이다"라고 발표 하였다.



SAGES (미국소화기내시경외과학회)에서 대규모 임상 데이터 검토로 STRETTA Therapy를 가장 강력한 추천 Clinical Spotlight Review guideline을 받았다.

LANDMARK STRETTA META-ANALYSIS 2017

LANDMARK STUDY:

STRETTA SAFE AND EFFECTIVE FOR GERD

> 28 STUDIES

2468
GERD PATIENTS

25
MONTHS AVERAGE
FOLLOW-UP (6-120)

- Significant improvement in GERD HRQL scores
- Significant reduction in heartburn symptom scores
- Majority of patients off proton pump inhibitors (PPIs)
- Significant healing of erosive esophagitis
- Significant reduction in in esophageal acid exposure
- Low adverse event rate of <1%</p>

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

ivieler et al. 2007 – Scaridinavian Journal of Gastro

Tam et al. 2003 - Gut

Utley et al. 2000 – Gastrointest Endosc

건강보험	분류번호	코드	분류
행위 급여	자-760	Q7600	위식도 역류질환의 내시경적 고주파 치료술 Radiofrequency Energy Delivery for the Treatment of Gastroesophageal Reflux Disease
치료재료 급여		M2064001	위식도 역류질환의 내시경적 고주파 치료술용 "STRETTA"

수입원: 제이피아이 헬스케어(주)

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