SIO Triveneto

LA GESTIONE INTEGRATA DEL PAZIENTE BARIATRICO

Nuove Frontiere nella Chirurgia dell'Obesità

Franco Favretti MD

Department of General Surgery "San Bortolo" Regional Hospital of Vicenza (I) Director: Franco Favretti

Medical Department University of Padua (I) Director: Giuliano Enzi

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US BARIATRIC SURGERY TRENDS 2002-2010E



177 K Surgeries in 2009 / 2010

Source: - Total Procedures – ASMBS 2002-2007, AGN Estimates 2008-2010; Banding 2002-2008 – LAP-BAND® Sales; Total Banding / Bypass / Sleeve Procedures – AGN Estimates

NUMERO E TIPOLOGIA DELLE PROCEDURE ANTI-OBESITÀ IN ITALIA

Anno 2006 – 4. 870 interventi

Anno 2007 – 4.989 interventi



Dati Elaborati dalla Società Italiana per la Chirurgia dell'Obesità 2008

Suddivisione geografica dell'attività di chirurgia bariatrica





Chirurgia dell'Obesità



EASY BAND



THE DEVICE

• Similar to other gastric banding implants, <u>except</u> that adjustment is performed from outside the body, telemetrically, in a non-invasive manner



Simulated images of technology – NOT final device

Adjustment Procedure



Precise diameter adjustment from 19 to 29 mm

- Real time "on screen" diameter display
- > Microchip card records last band adjustment

ADVANCED TECHNOLOGY

- Telemetric adjustment
 - A small band antenna is placed underneath the skin
 - telemetrically activated electric motor embedded in the implant
 - Adjustment requires the use of an external control unit
- The control unit is placed on the surface of the patient's skin
- Locates the band antenna and then adjustments are performed by pressing the 'open' or 'close' button
- The control unit displays a measurement of the band diameter, allowing for precise and fine-tuned banding information

POTENTIAL ADVANTAGES

- No puncturing of the patient's skin
- Reduction in access port related complications
 - Port irritation and discomfort
- No system leaks or port and tube disconnections

The Tantalus System





Dispositivi Intragastrici

Gastroesophagoplasty Project









Paddle type electrode

Generator





Balloon attached paddle electrode

✓ Inflate balloon





Inflate balloon to constrict esophagus

✓ Measure inter-lumenal pressure



Device monitored by pressure sensor

The TransPyloric Shuttle[™] (TPS[™]) proposed novel mechanism of action

Intermittent sealing of pylorus in concert with peristalsis

- Delayed gastric emptying
- Increased residence time for meals
- Induced early satiation
- Multi-year device dwell time

Intermittent Sealing of the Pylorus Slows Gastric Emptying



The contents of this document are proprietary and confidential



TPSTM A New Approach

- Proposed novel mechanism of action
 - Intermittent sealing of pylorus in concert with peristalsis
 - Self-positions
 - Non-anchored and free floating within the gastric cavity
- Solid silicone device
 - Multi-year dwell time for behavior modification treatment
 - Avoids short-term placement limitations and device rupture/tearing

ReShape Dual-Balloon and Delivery System





The ReShape Procedure

Non-surgical 15 minute procedure



Step 1 Evaluation



Step 3 Inflation

The EndoBarrier System









Bariatric Surgery

Future characterized by:

- Major impact of Quality of Life and Risk /Benefits Analyses Concepts
- Step by Step approach/Sequential Therapy of Obesity