

The Evolution of Bariatric Surgery Past, Present and Future

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Goals and Objectives

By the end of this presentation you will have been:

- Reminded of the success of Bariatric Surgery

- Warned about the “Sine Wave” of New Technology

- Provided with some illustrations of historical and current and procedures

 - without getting too technical...

- Shown examples of novel procedures that may or may not stand the test of time

Conflict of Interest

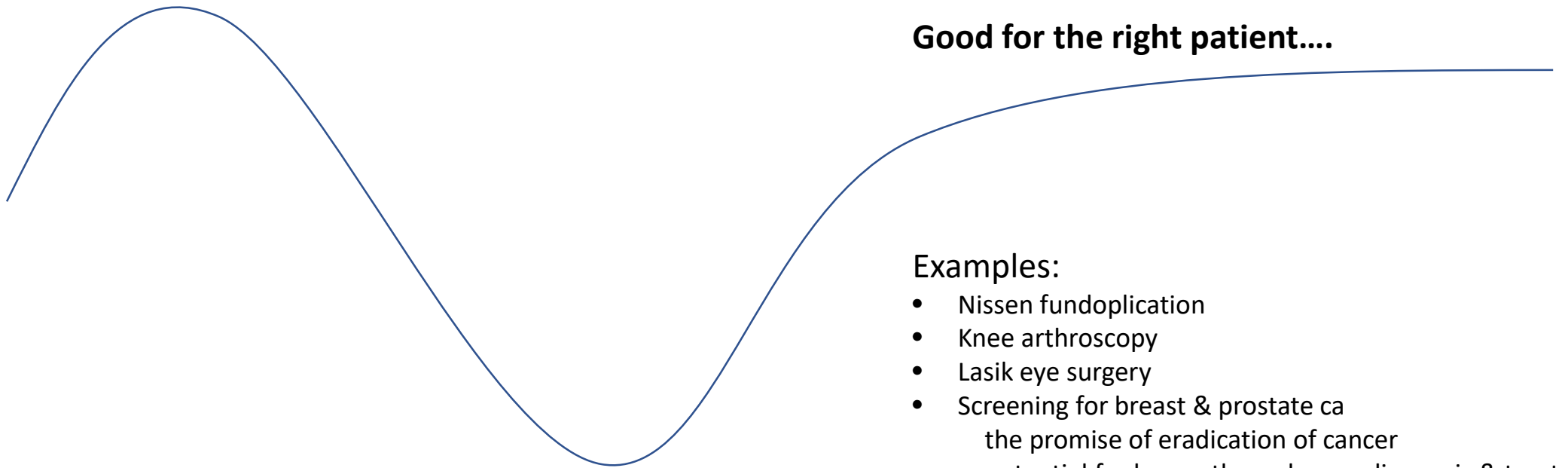
I am 7 months retired from surgery and do not perform or assist in surgical procedures (the Minister of Labour does not allow...)

Before that I was wined, dined, golfed by instrument manufacturers

I was never paid as a consultant by industry, nor gave industry sponsored talks

The Sine Wave of New Technology

Best thing
since sliced
bread



Wouldn't do it to a cat...

History of Bariatric Surgery – The Past

10th Century

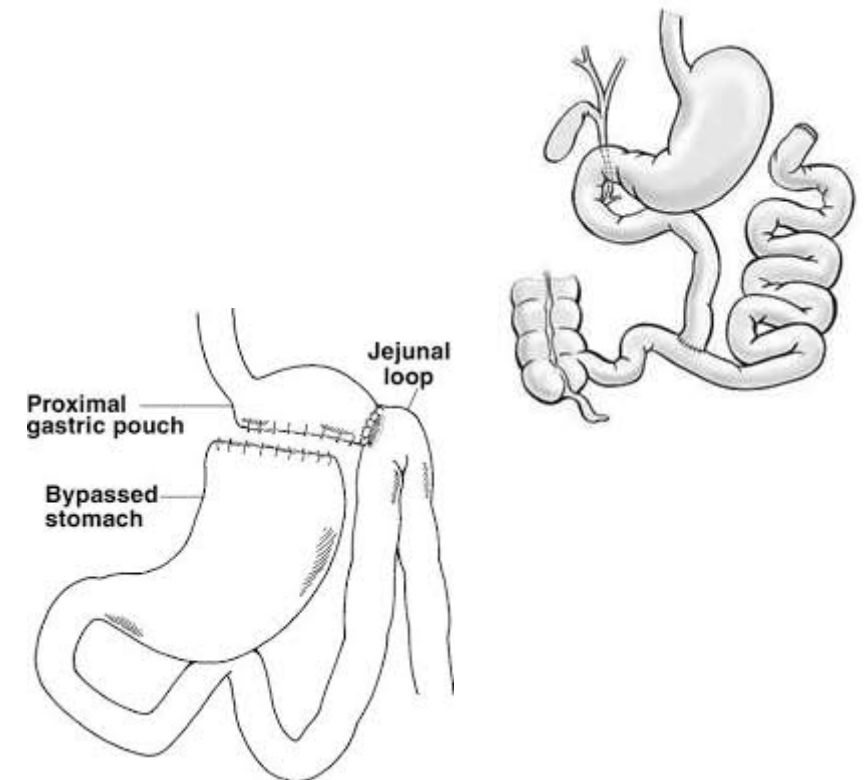
King D Sancho of Leon couldn't ride a horse or carry a sword. In Cordoba had his lips sewn shut, survived on a liquid diet. After 50% weight loss he returned home and regained his throne

1954 Kremen University of Minnesota

Jejunioileal bypass. Malabsorbative
Major metabolic consequences

1966 Mason University of Iowa

Horizontal gastric resection with ileal loop
Restrictive & ?hormonal
Severe reflux



History of Bariatric Surgery – The Past

1960's Open (1993 laparoscopic Roux en Y Gastric Bypass

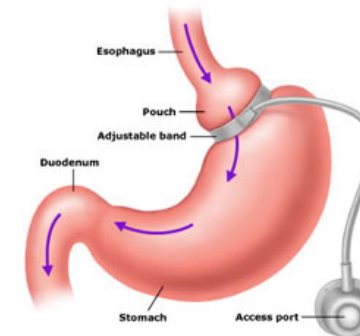
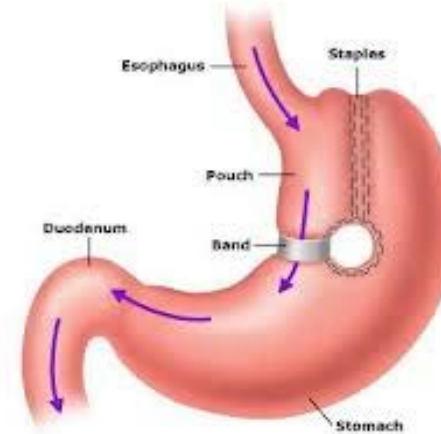
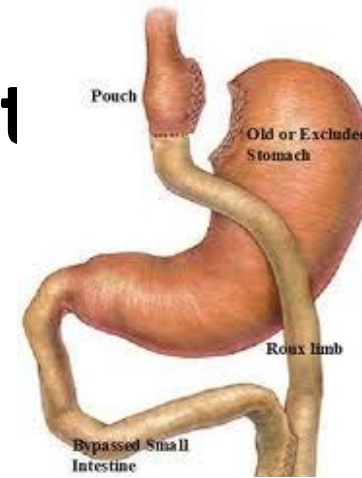
Restrictive, malabsorptive & hormonal
Obstruction, marginal ulceration

1982 Vertical Band Gastroplasty

Restrictive & hormonal
Strictures, stomach returning to normal

1986 Open Adjustable Gastric Band

Restrictive
Reflux, obstruction

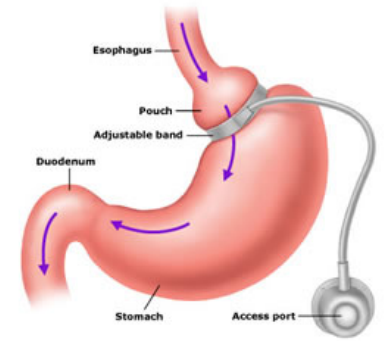


History of Bariatric Surgery – The Present

1992 Laparoscopic Adjustable Gastric Band

Restrictive 1 million inserted worldwide

Reflux, obstruction, 50-100% ultimate removal rate



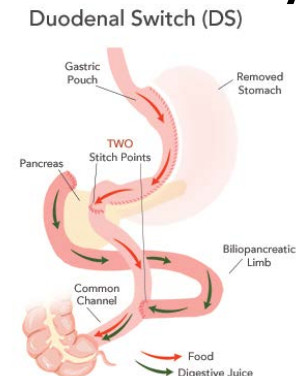
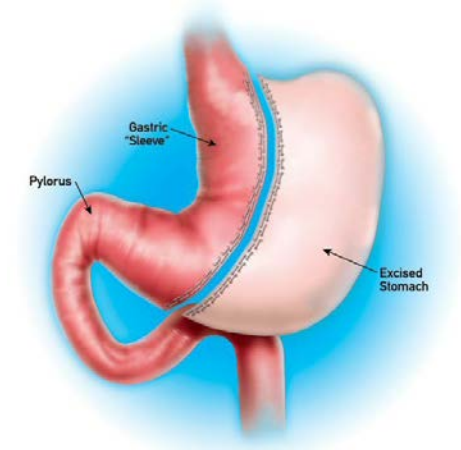
1993 Marceau Laparoscopic Sleeve Gastrectomy

Restrictive and hormonal

Originally part of the Duodenal switch operation

Commonest laparoscopic bariatric procedure today

Easier than a bypass



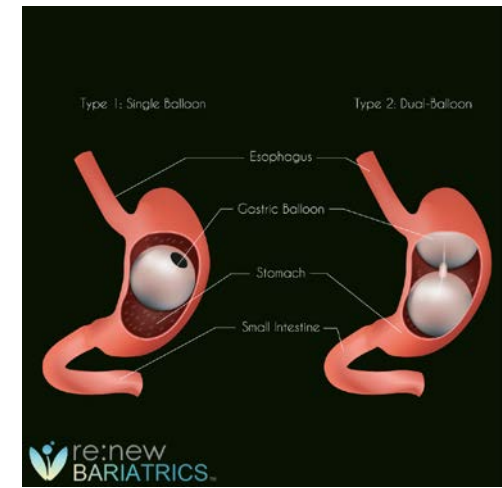
History of Bariatric Surgery – The Future

Be very very skeptical – the first 100 patients great success, next three died!

Await quality literature from reputable centres

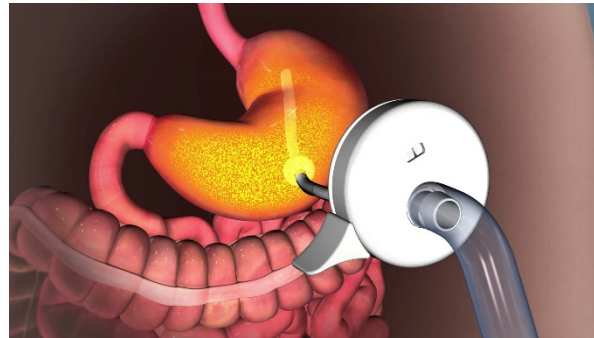
There are a lot of cowboys out there with \$\$\$ in their eyes!

Gastric Balloon



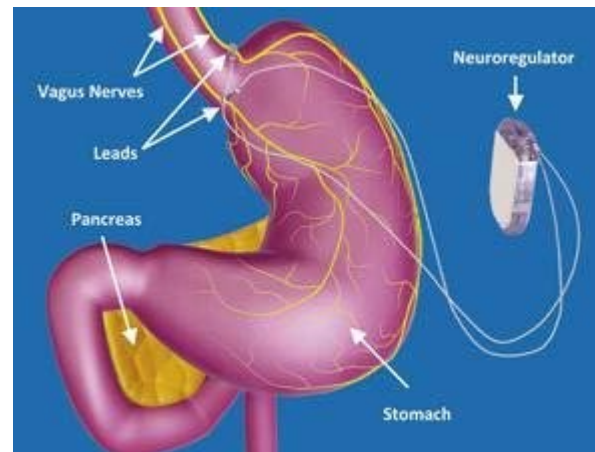
12 deaths since 2016!

Aspireassist



111 patients reported on...

Vbloc



Highly experimental clinical trials recruiting

Summary

Bariatric surgery has been around for over 60 years

Several surgeries have stood the test of time

- gastric bypass

- sleeve gastrectomy

No surgery is without complication

- the more complex - the higher the chance of complication

Surgeons (and investors) will always seek new and exciting techniques

- The promise of the “next best thing” is a strong motivator for those wanting to make money...

Until there is a pill or vaccine, bariatric surgery is the most effective approach to weight and adverse obesity outcomes



“Surgery is scheduled six weeks from today. Don’t eat anything before then.”