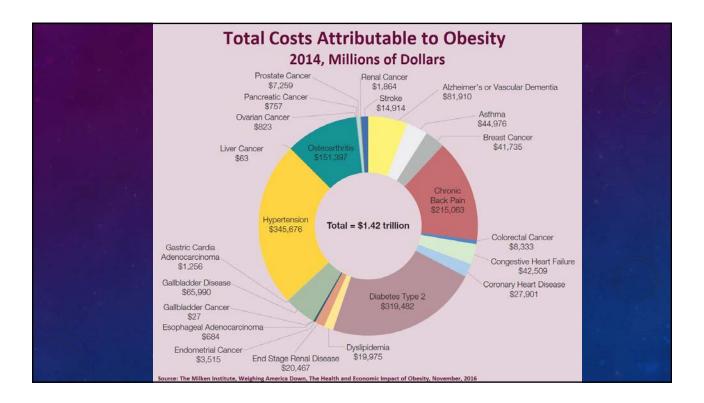
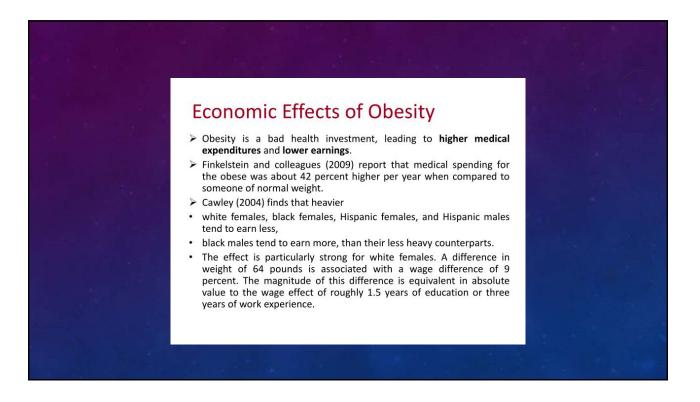


SPECIAL CONSIDERATIONS IN CARE FOR OBESE AND POST BARIATRIC SURGERY PATIENTS

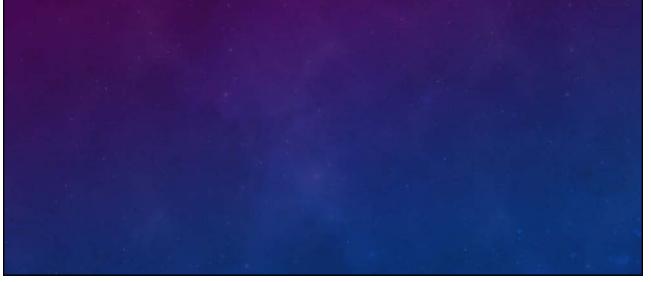
STEPHEN R. BELL DO MARCH 2, 2019

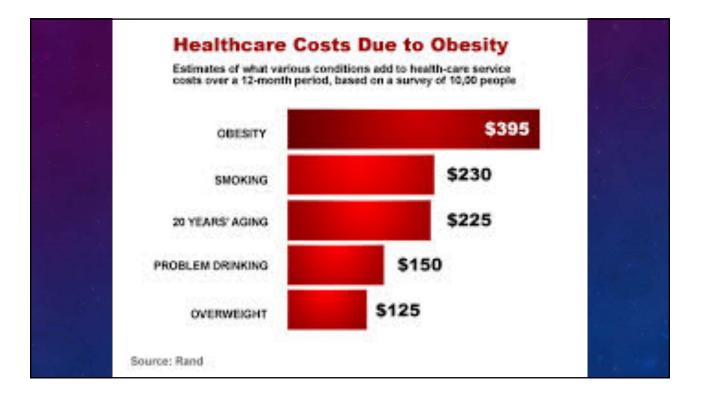
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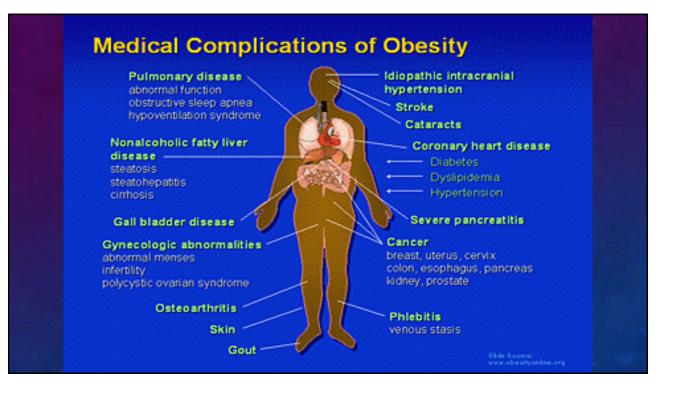


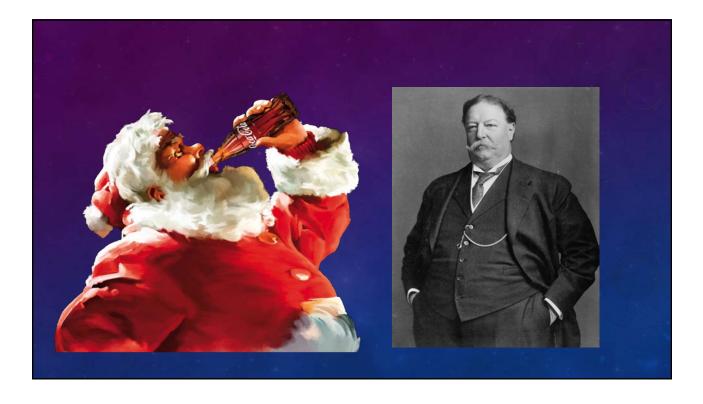


ECONOMIC EFFECTS OF OBESITY

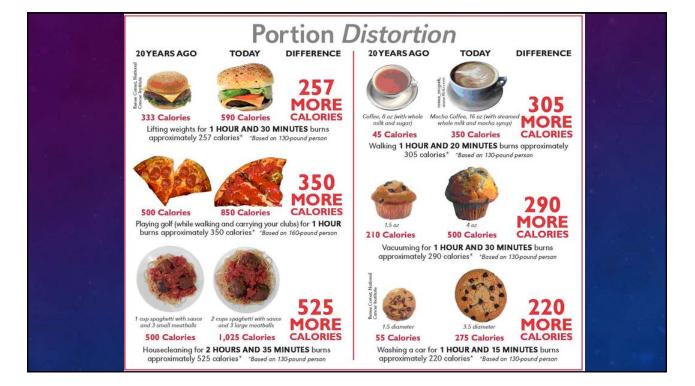




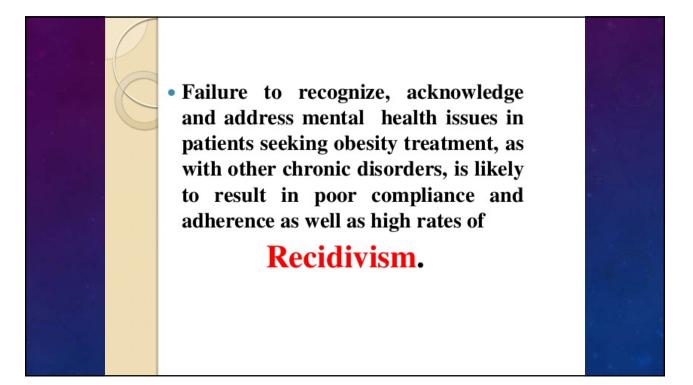


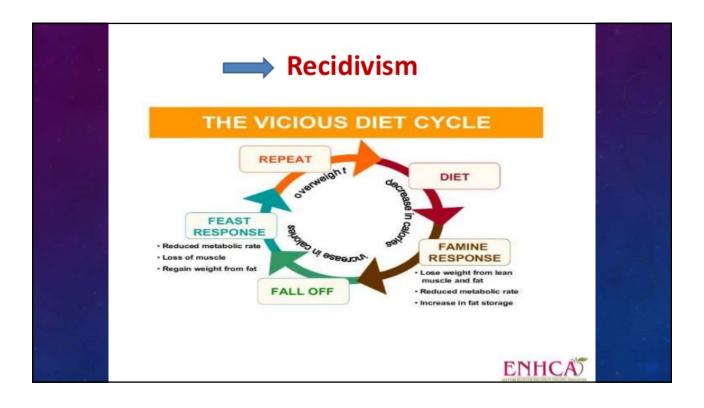












The defence of body weight: a physiological basis for weight regain after weight loss

Priya SUMITHRAN and Joseph PROIETTO

nor (2013) 124, 231-241 (Preset in Great Britain) exi: 10.1042/0520120223

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INTRODUCTION

ROUGENTION-main settle two can smally be achieved through discup-tions and/or increases (a by-cal achieves), the weak-balance train of proper regardless the weight that they have bar over bargeterns. A meta-analysis concluded that 4.5 years after producing a writestrate acyclobule programmer acyclobule trained was also regardless the second of the second of the meta-activity of producing and the second of the meta-activity of producing and the second of the meta-activity of the second of the second of the meta-activity of the second of the second of the meta-activity of the second of the second of the meta-activity of the second of the second of the meta-activity of the second of the second of the second of the meta-activity of the second of the second of the second of the meta-activity of the second of the second of the second of the meta-activity of the second of the programme [2]) to of initial body

the context for the subrequent discussion of short- and lo physiological changes which accompany diet-induced loss. A number of comprehensive reviews of the topis have included insights from animal models of obesity ha published elsewhere [5,6].

BODY WEIGHT REGULATION

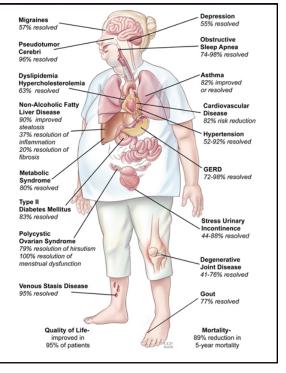
n the considerable variation in food in

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"Obese individuals would rather have a normal weight with a severe disability such as be deaf, have heart disease, have an amputation and others rather than be obese without any of these conditions" (Livingston 2003).

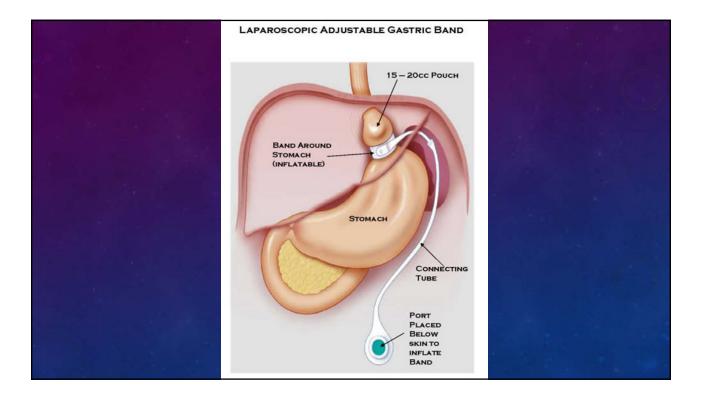
THE POSITIVE EFFECTS OF WEIGHT LOSS

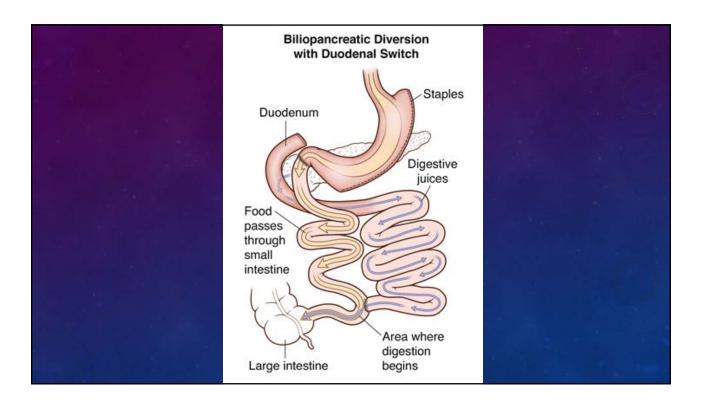


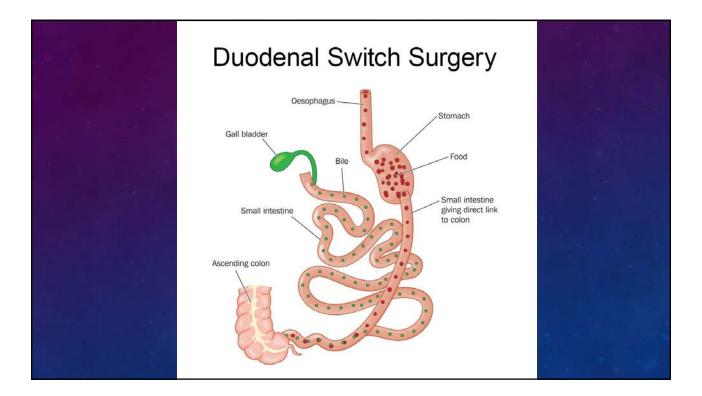
IMPROVEMENTS OF CO-MORBIDITIES

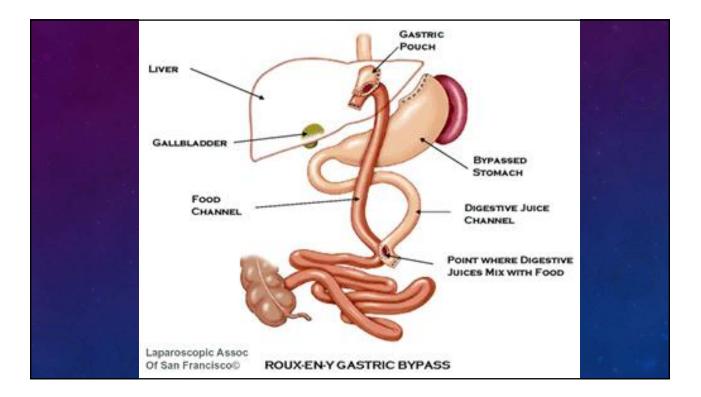
- 2 years after surgery diabetes mellitus was resolved in 83% of pre-operative diabetic patients (Sugerman et. al 2005)
- 2 years following surgery 69% had resolution of hypertension
 - 8 years post-surgery there was complete relapse in those with gastric banding
- 25% decrease in total cholesterol and 40% decrease in triglycerides 6 to 12 months after surgery

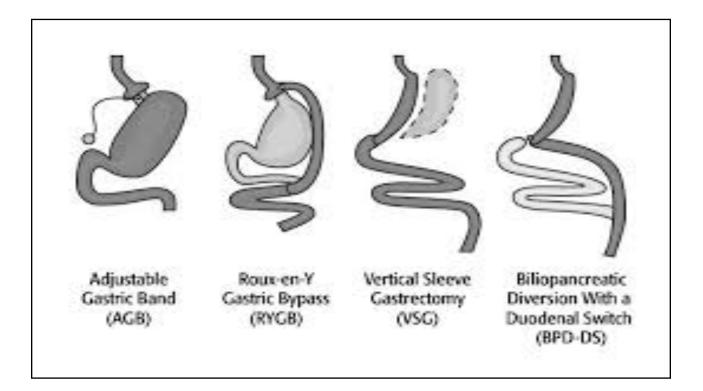
" Most obese patients consider impaired QOL the most crippling aspect of their disease, and after surgery consider enhanced QOL the greatest benefit" (Puzziferri 2005).

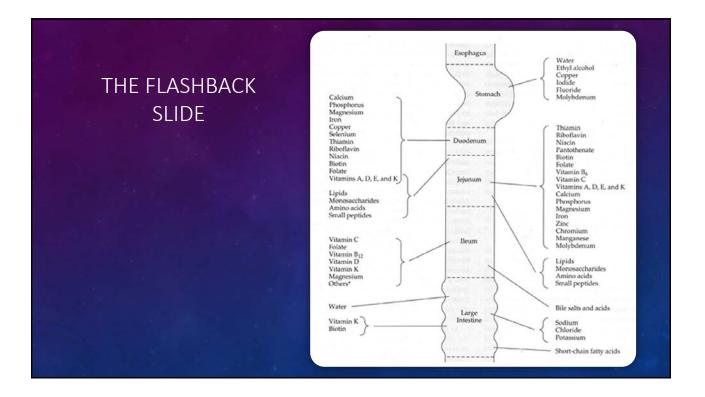




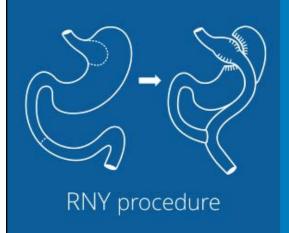








How Does Gastric Bypass Affect Drug Absorption?



- o ↓ exposure to gastric acid
- ↑ pH will ↓ solubility of drugs
- Reduces intestinal exposure and drug absorption
- J absortion of many drugs
- Changes in first pass metabolism

evension, J. L., & Ferrando, S. J. (Eds.). (2016). Clinical manual of psychopharmacology in the medically II. American Psychiatric Pub.

COMMON PROBLEMS POST-OP

- Dehydration
 - 8x8 oz glasses of water are encouraged
 - · Constipation occurs when added to iron supplements and low fiber
- Nausea and Vomiting
 - Eating regular foods at regular speeds will cause sometimes spectacular results. Slower, smaller, more frequent meals are encouraged
- Dumping Syndrome (about 15%)
 - Usually about 30 minutes following a meal as sugary/fatty foods are"dumped" into the small intestine. "Flu-like symptoms include nausea, sweating, bloating, abdominal cramps, and diarrhea.
- Diarrhea
 - Secondary to new onset lactose intolerance

COMMON PROBLEMS POST-OP

- Ulceration of Stoma
 - 12%-15% within 2-4 months
 - Presents as GERD, nausea, vomiting
 - Due to
 - Increased Acid production
 - Anastamotic breakdown
 - NSAIDs
 - Tx
 - PPI, carafate
 - Antibiotics H. Pylori
 - Avoidance of causal foods & NSAIDs
 - Referral back to surgeon!!

LAB TESTING FOR THE POST-OP PATIENT

- Vitamin A
- CMP
- CBC
- Mag
- Calcium
- Lipid Iron/TIBC
- Hgb A1c
- LDH
- *CPK*
- Albumin
- Uric acid

- GGT
- Phosphate
- Vitamin B-1
- Vitamin B-6
- Vitamin B-12
- Folate
- Vitamin D
- Vitamin C
- Zinc

HELPFUL HINTS

- Get 30-45 minutes of moderate intensity exercise "most " days of the week
- Small bites, chew food well enough to make it a paste, before swallowing
- Take appropriate supplements- chewable or smaller than an "M&M"
- At least 64 oz of fluids daily, but
- NO DRINKING with meals (5 minutes before to 30 minutes afterwards)
- Avoid intake of 2+ gms of sugar in a serving
- Avoid high fat foods
- Eat 6 small high protein meals daily (meet your individualized goal)



IMPROVEMENTS OF CO-MORBIDITIES?

- **2 years** after surgery diabetes mellitus was resolved in 83% of pre-operative diabetic patients (Sugerman et. al 2005)
- 2 years following surgery 69% had resolution of hypertension
 8 years post-surgery there was complete relapse in those with gastric banding
- 25% decrease in total cholesterol and 40% decrease in triglycerides 6 to 12 months after surgery

IMPROVEMENT – IS IT WORTH IT??

- There is a lack of long term studies which go beyond 2 years.
- Steve's opinion- There may be long term weight loss to some degree, although there is **usually** some gain. However the cost is a lifetime of side effects (surgery dependent) and chaos within one's personal relationships.
- Is there a good weight loss answer?

INTERPERSONAL RELATIONSHIPS

- Individuals who have undergone bariatric surgery have a higher probability of getting married, separating from their partner or getting divorced- JAMA Surgery
 - University of Gothenburg. "Relationship changes after bariatric surgery." ScienceDaily. ScienceDaily, 28 March 2018. <www.sciencedaily.com/releases/2018/03/180328123926.htm
 - Gustaf Bruze, Tobias E. Holmin, Markku Peltonen, Johan Ottosson, Kajsa Sjöholm, Ingmar Näslund, Martin Neovius, Lena M. S. Carlsson Per-Arne Svensson. Associations of Bariatric Surgery With Changes in Interpersonal Relationship Status. JANA Surgery, 2018; DOI: 10.1001/jamasurg.2018.0215



