

What to know about bariatric surgery nowadays

Dre Christelle Theriault
Bariatric and General Surgeon
Moncton, April 2023

Conflict of interest

- Presenter for ASCEND international project
 - Educational branch of Novo Nordisk for obesity

Morbid obesity = chronic disease

Complex and multifactorial

- Genetic
- Hormonal
- Metabolic
- Lifestyle
- Psychologic

Different treatment available

- Lifestyle modification
- Medical treatment
- Surgical treatment

What qualifies a patient for bariatric surgery in 2023

- BMI
- Motivation/Compliance
 - ✓ Desire to adopt a healthier lifestyle
- Medical treatment failure?
- Comorbidities
- Absence of contraindications
 - Mental health issues
 - Severe medical condition
 - Smoking/drugs/alcohol

Medical treatment

- BMI >27 with comorbidities or BMI>30
- Options :
 - Liraglutide/Semaglutide (Saxenda/Ozempic)
 - Type 2 Diabetes
 - Naltrexone/Bupropion (Contrave)
 - Depression
 - Orlistat
 - Constipation
- ALWAYS associate with a lifestyle modification
- Good option when surgery's not possible
- "Is it for life, doctor?"
- What is considered a failure ?
 - Expected weight loss 5-15 %



Bariatric Surgery: Basic selection criteria

Age 18-60 (up to 65)

BMI >35 with comorbidities or BMI >40

* Type 2 Diabetes

* Hypertension

* Dyslipidemia

* Sleep apnea

* Infertility

* Severe joint disease

* others : NASH, GERD, SOPK, pseudotumor cerebri

Bariatric surgery : Basic selection criteria

Individual has failed to lose weight or maintain long-term weight loss despite appropriate and sustained interventions

- Motivation
- Compliance
- Understanding of necessary changes in lifestyle
- Need of a multidisciplinary team for support

Accept life-long follow up and vitamins intake

Exclusion criteria

- Severe cardiopulmonary disease
- Current drug or alcohol abuse
- Reversible endocrine disorder than can cause obesity
- Lack of ability to comprehend the risk, benefits, expected outcomes, alternatives and required lifestyle changes of bariatric surgery
- Existing uncontrolled severe psychological illness
- Disease that is life-threatening in the short-term (cancer)
- Individual who is unable to care for themselves and has no long-term family or social support

How to prepare a patient prior to their bariatric surgery consultation

- Evaluation of lifestyle habits and initiate improvement
 - *Smoking cessation
 - *Motivational interviewing
 - *Setting expectations
 - *Encourage support network
- Screening for comorbidities and appropriate treatment in order to decrease risks peri-operatively
 - Sleep apnea
 - Diabetes
 - Hypertension
 - Fatty liver (hypocaloric shakes pre-op)

Prior to their bariatric surgery consultation

If possible, refer to :

- **Dietician**
 - ❖ To address nutrition basics (stop pop/juices, 3 meals/day and snacks, explain different food groups)
- **Kinesiologist and/or physiotherapist**
 - ❖ Introduce physical activity appropriate to their capacity
 - ❖ Address chronic MSK pain
- **Psychologist**
 - ❖ Assess emotional eating and binge eating
- **Health coach**
 - ❖ Help with motivation
 - ❖ Live well NB

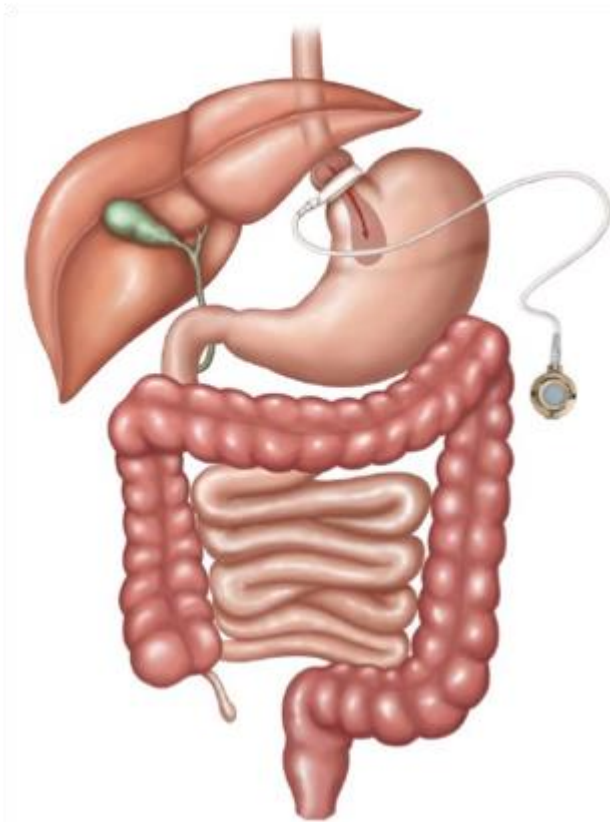
Overview of different bariatric surgeries

Lap band

Sleeve

Gastric bypass

Duodenal switch



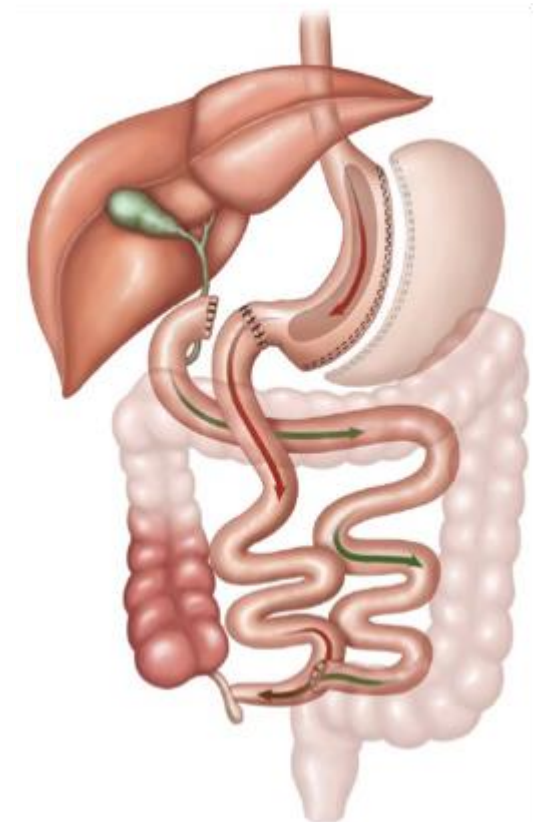
Weight Loss 15-25 %



Weight Loss 25-35 %



Weight Loss 30-35 %



Weight Loss 35-50%

The physiology of bariatric surgery

Increase of satiety

- GLP-1
- PYY
- CCK

Decrease of hunger

- Ghrelin

Follow up

- Weight loss/plateau/weight regain
- Acid Reflux
- Nutritional deficiencies
- Improving/Resolution of comorbidities

Weight trajectory after bariatric surgery

- Weight loss
 - Usually occurs within the first 6 to 18 months post-op
- Plateau
 - Very common, different for every patient
- Weight regain
 - After 24 months, 50 % of patients will have regained some weight
 - Different causes :
 - Psychological issues that were not addressed
 - Lack of compliance
 - Metabolic/hormonal factors (adaptive mechanisms post weight loss)
 - Surgical factors

Acid Reflux post Sleeve

- 1/3 will get worse
- 1/3 will get better
- 1/3 will remain unchanged

- If long-standing GERD pre-op: assess with gastroscopy
 - R/O Barrett

- If worse post-op
 - Optimal medical management
 - Gastroscopy
 - Surgical revision (conversion to gastric bypass)

Nutritional deficiencies

- Iron
- B12
- Calcium
- Vitamine D
- Vitamine A
- Others : Vitamine E, zinc, copper, selenium , etc

Improvement and resolution of comorbidities

Diabetes

- Reduce oral glucose lowering therapies and insulin
- *SGLT-2

Hypertension

- Reduce anti hypertensive drugs
- *ACE inhibitors

Joint pain/chronic pain

- Be careful with NSAIDS, narcotics

Hypothyroidism

- Adjust synthroid according to TSH fluctuation post weight loss

Role of medication in obesity management in conjunction with bariatric surgery

- Different medications available
 - GLP-1 agonist (semaglutide, liraglutide)
 - Naltrexone/Bupropion
 - Orlistat
- Role of medication pre-op
 - Help to control comorbidities
- Role of medication post-op
 - Help to maintain weight loss
- Only medication, no more bariatric surgery ?
 - For some patients

Take home message

Patient is the key to his own success no matter which treatment is proposed

Discuss expectations with patient (for either medical or surgical treatment)

Patient will need long-term follow up

Use of anti-obesity medication post-surgery can help maintain long-term weight loss

Thanks

