

Welcome!

Bariatric Surgery Medical, Nutrition and Lifestyle Requirements:

Getting serious about surgery

April 5, 2023

Bariatric Education Module Overview

Week 1	Bariatric Surgery Medical and Lifestyle Requirements: <i>Getting serious about surgery</i>	Wednesday April 5 at 6:45 pm
Week 2	<i>Moving towards Surgery:</i> Preparing for and Post-Surgery	Wednesday April 12 at 6:45 pm
Week 3	Life after Bariatric Surgery: <i>Defining Success, Managing Expectation & Discussing</i> <i>Pitfalls</i>	Wednesday April 19 at 6:45 pm
Week 4	Patient Voice & Lived Experience (2-3 guest speakers)	Wednesday April 26 at 6:45 pm



Outline

Overview of bariatric surgery procedures

- Qualifications & pathway to bariatric surgery
- Nutrition and eating behaviour requirements set forth by the Richmond Metabolic and Bariatric Surgery program

Medical Nutrition Therapy (MNT)

MNT is used in managing chronic diseases and focuses on nutrition assessment, diagnostics, therapy and counselling. MNT should:

- **a.** be personalized and meet individual values, preferences and treatment goals to promote long term adherence
- **b.** be administered by a registered dietitian to improve weight-related and health outcomes

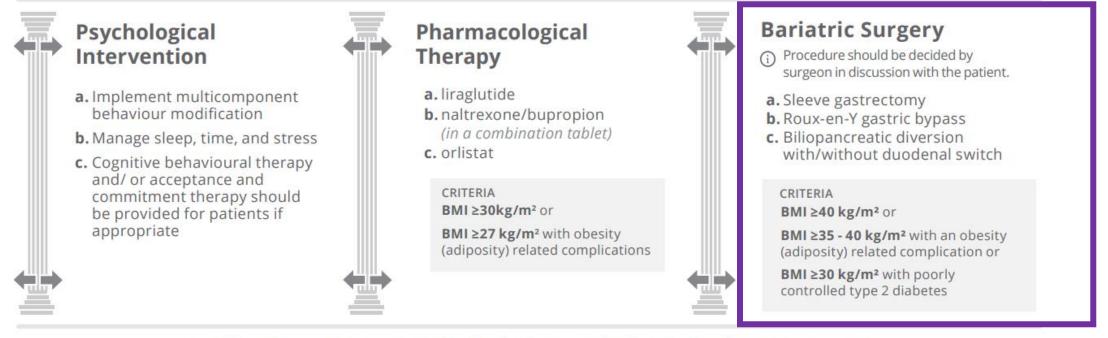
Physical Activity

30-60 mins of aerobic activity on most days of the week, at moderate to vigorous intensity, can result in:

a. small amount of weight and fat loss
b. improvements in cardiometabolic parameters
c. weight maintenance after weight loss

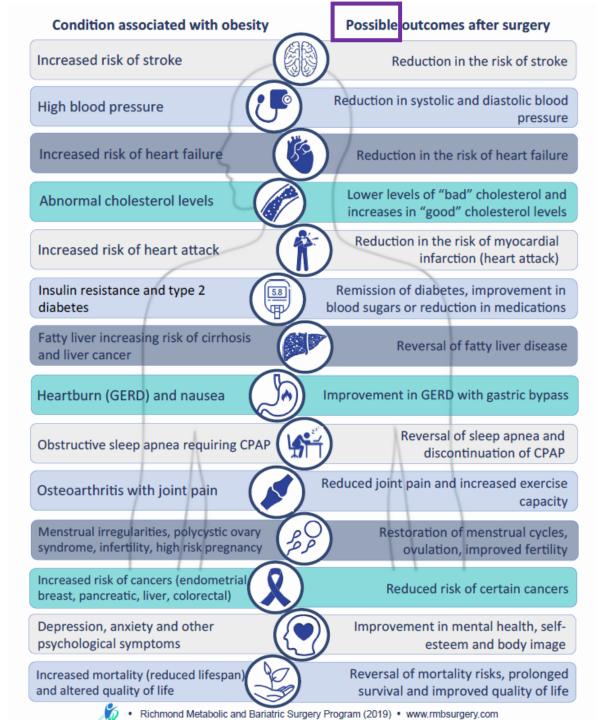
(i) Remember nutrition and physical activity recommendations are important for all Canadians regardless of body size or composition.

The Three Pillars of Obesity Management that Support Nutrition and Activity



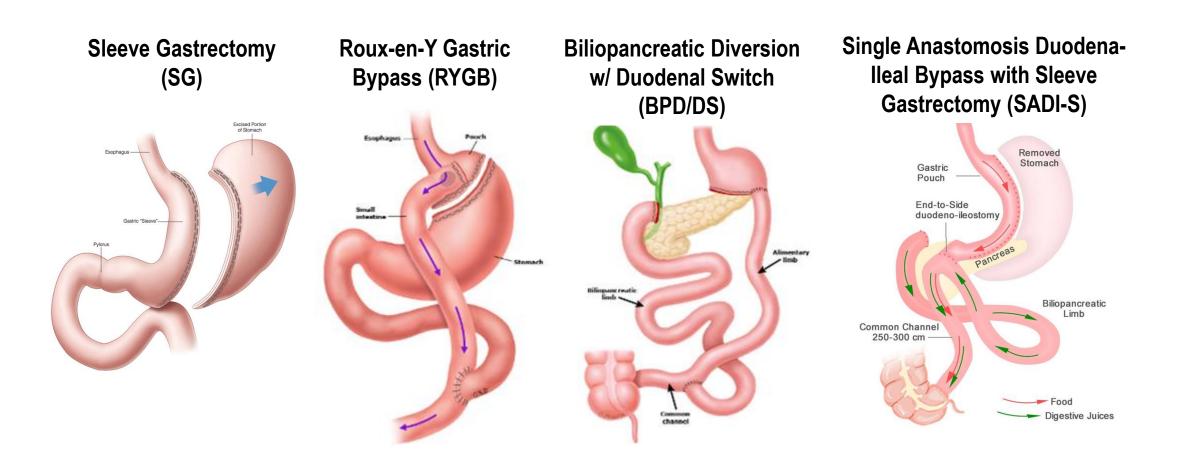
Treating the root causes of obesity is the foundation of obesity management refer to the 4M framework - mechanical, metabolic, mental and social milieu Health improvements after Bariatric Surgery

> Remember, everyone is different and the goal should not be how much weight someone loses **but HOW that weight loss affects someone's** health and quality of life.

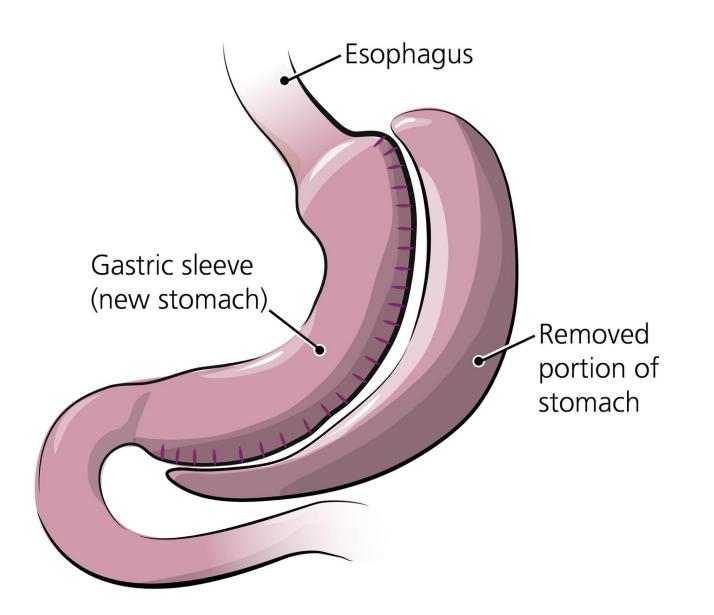




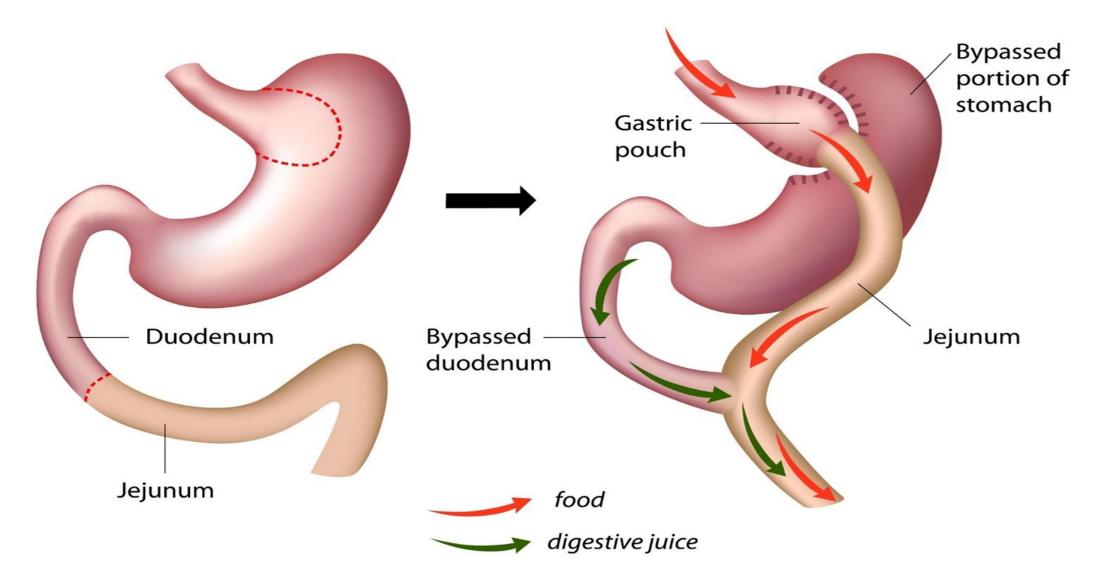
Bariatric Surgery

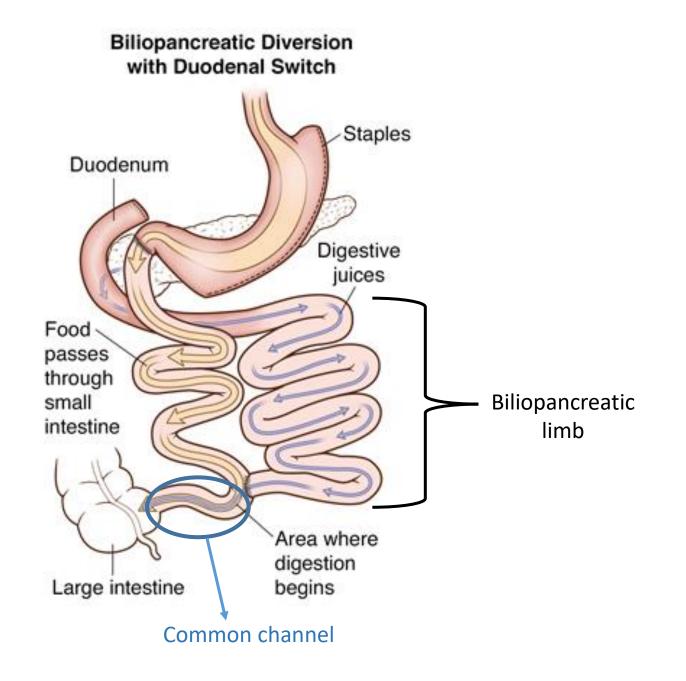


Gastric Sleeve

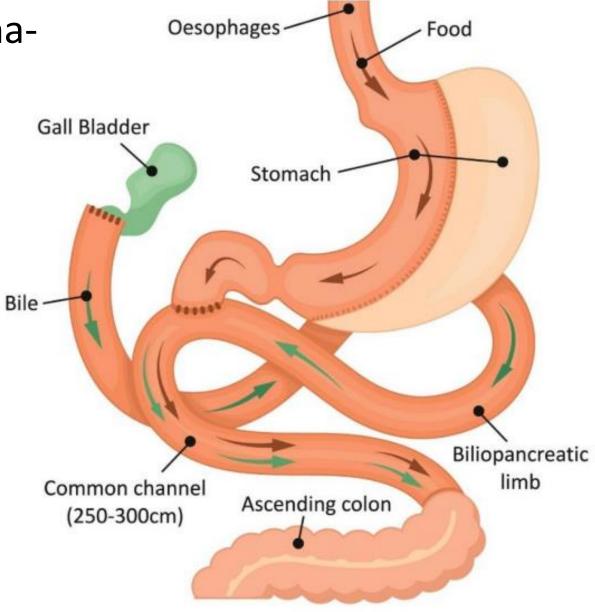


Roux-en-Y Gastric Bypass (RNY)





Single Anastomosis Duodena-Ileal Bypass with Sleeve Gastrectomy (SADI-S)



Updates from RMBS Program

- Please keep an open mind to the different surgical options so the surgeons can discuss the best option for you specifically in terms of associated health conditions and expected weight loss.
- Patient interested in the SADI-S or BPD-Duodenal Switch will follow a different pathway as they would be screened and optimized by Dr. Jordanna Kapeluto (Endocrinologist) and they are very selective with patient pursuing this route (higher BMI (over 50), so people with higher weights and larger bodies, were more significant impact on their health and medical conditions).
- SADI-S and BPD-DS are revisional surgeries for those who have experienced significant weight regain following a sleeve gastrectomy.
- The pre-bariatric nutrition and lifestyle requirements for nutrition clearance for the SADI-S and BPD-DS, they are the same as with the sleeve or RYGB, so the check list and what is discussed in the Session 1 module.

Revisional Surgery:

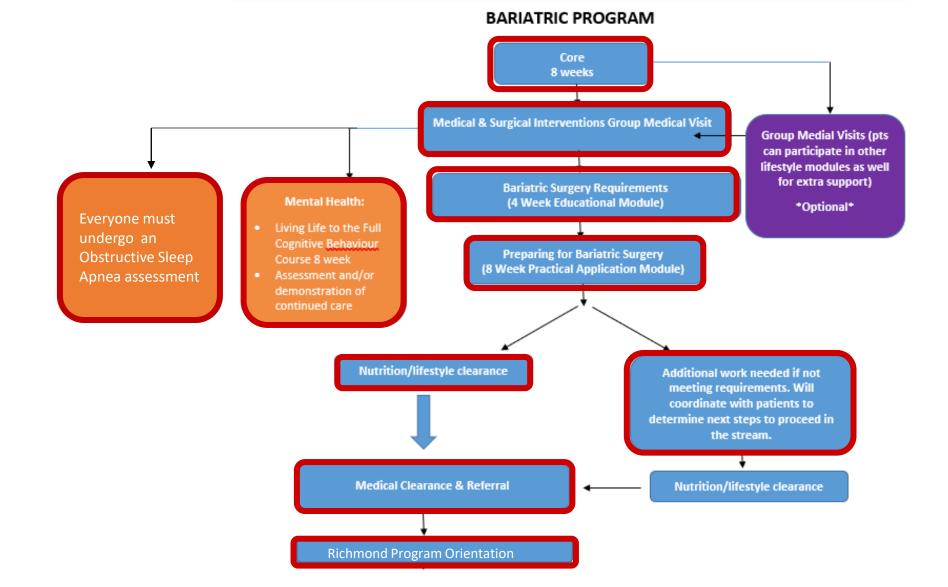
- For patients who have had previous bariatric surgery (lap band, plication, sleeve gastrectomy, stapling, etc), we will do our best to work with you and we may refer you to the Richmond Metabolic and Bariatric Surgery Program for revisional surgery. This is not an <u>expedited referral</u> as each case must be assessed by the surgeons if a revisional surgery is safe and even feasible. These patients must also be medically assessed by our physicians and cleared for the nutrition, eating and lifestyle behaviours requirements for bariatric surgery in order to be referred.
- Again being referred to the Richmond Metabolic and Bariatric Surgery Program does not automatically guarantee that you will undergo revisional bariatric surgery. The RMBS healthcare team and bariatric surgeon will review your file and further assess if revisional bariatric surgery is safe and effective treatment for the management of your obesity, and they will make the final decision regarding this. Please read, review and be aware of the RMBS Bariatric Program Patient Contract once you receive the RMBS Program Manual.

Surgical Program



Delivered in partnership with the Richmond Metabolic and Bariatric Surgery Program:

- OMDI Medical Weight Management Program:
 - Assesses readiness for surgery
 - Prepare patients for surgery
 - Provides long-term bariatric care to help patient maintain weight loss and improved health benefits associated with the surgery
- Richmond Metabolic and Bariatric Surgery Program
 - Further assess appropriateness for surgery
 - Provides immediate pre & post surgical care
 - Performs the surgical procedure





Timeline

Pre-Surgery

- ✓ Assess your readiness to change
- \checkmark Complete the OMDI course requirements
- \checkmark Provide teaching and support to develop skills needed post surgery
- \checkmark Ensure you are comfortable and prepared for surgery

Post-Surgery (ongoing)

- \checkmark Support you in recovery
- \checkmark Assist you in maintaining your new lifestyle



Program Considerations

- 1. Material Costs
 - Bariatric Preparedness Course: \$300 for 8 weeks
 - Post-surgery vitamins/mineral supplements (for life) =~\$35-75/month
- 2. Time Off
 - Pre-surgery: classes and appointments at OMDI & RMBS Program
 - Post-surgery recovery: ~4 weeks off work
 - Post-surgery: medical appointment
- **3. Transportation** (reduced due to COVID19)





Expected Weight Loss Outcomes

Surgery Type	Excess Body Weight Loss	Total Weight Loss	
Vertical Sleeve Gastrectomy**	~46-65%	18-30%	
Roux-en-Y Gastric Bypass*	~60-75%	20-40%	
Biliopancreatic Diversion With Duodenal Switch	~70-80%		

Excess Body Weight (EBW) = Weight above BMI 24.9

*Buchwald et al., *JAMA* 2004;292(14):1724-1728

**Shi et al., Obes Surg 2010;20(8):1171-1177

***Colquitt JL, et al. (2009) Surgery for Obesity. *Cochrane Database of Systematic Reviews* (2).

Example of Excess Body Weight Loss 60%

Age: 25 - Weight: 350lbs (159kg) - Height: 172cm (5'7) - BMI: 53.7 kg/m2

Body weight at BMI 24.9 = 162.8 lbs

Current weight at BMI 53.7 (350 lbs) – weight at BMI 24.9 (163lbs) = \sim 187 lbs x 0.60 = **112 lbs potentially will be lost.**

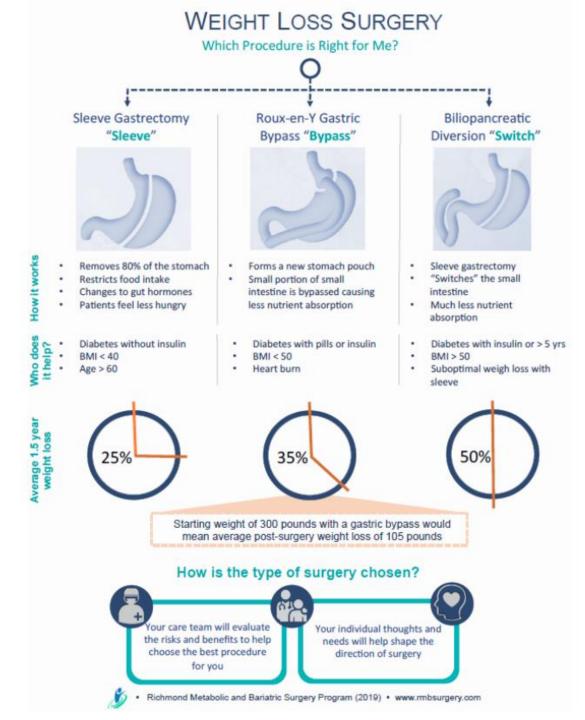
Current wt. 350lb – potential loss 112 lbs = 238 lbs 238 lbs is possible weight achieve post surgery BMI 36.5 kg/m2

Total weight loss: 32%

Managing Expectations - estimated

	Medications & Lifestyle Modification			Bariatric Surgery & Lifestyle Modification
Start weight (lbs)	5%	10%	15%	20-35% (pounds lost)
350	333	315	298	280-227 (70-123 lbs)
325	309	293	276	260-211 (65-114 lbs)
300	285	270	255	240-195 (60-105 lbs)
275	261	248	234	220-179 (55-96 lbs)
250	238	225	213	200-162 (50-88 lbs)
225	214	203	191	180-146 (45-79 lbs)

*Percentages are actual weight loss; numbers approximations and also depends on other factors such as weight loss prior to surgery, lifestyle behavior modification, etc



Requirements for Surgery

Age 18-65 years
BMI > 35 + weight-related disease
BMI > 40

Medical requirements:

- No significant cardiopulmonary or medical comorbidity that requires additional assessment
- No history of significant gastrointestinal disease e.g Peptic ulcer, Crohn's, Colitis, delayed gastric emptying.
- □ No previous gastric surgery
- Not using or dependent on non-steroidal anti-inflammatory drugs (NSAIDs)
- BMI must be below <60



Requirements for Surgery

Metabolic

- □ If living with diabetes A1C should be <8.5%
- □ If has sleep apnea then has a CPAP machine and functioning daily.
- Smoke free for 6 months
- Other chronic metabolic issues well treated & stable
- e.g. hypertension, dyslipidemia, hypothyroidism.



Medical Cannabis

- Smoking or vaping must be stopped 6 month before referral.
- Edibles an alternatives for medical use.
- The Richmond Metabolic and Bariatric Surgery Program only proceed with surgery for patients using medicinal cannabis in edible form and they encourage patients to wean off it possible at least a few weeks preop.
- It isn't advised after surgery and for patient who do have to resume it after surgery, it is under their own GP's direction.

Requirements for Surgery

Mental Health



- □ No history of self harm/suicide as risk increases post surgery
- If you have a mental illness, a substantial period of mental health stability (at least 2 years) documented by mental health professional or GP treating the mental illness (a letter to be provided).
- □ Stop using non-prescription or illicit drugs 18 months before surgery.
- No cognitive, personality disorder, or substance abuse disorder that could affect compliance with treatment (assessed by Dr. Lyon).
- $\hfill\square$ No active binge eating disorder
- Completed a cognitive behavior therapy program such as Living Life To The Full or a Stress Management course.
- A history of good compliance/adherence with medical appointments and treatment recommendations.

Requirements for Surgery

LIFESTYLE







Nutrition Foundation

- Track dietary intake e.g. pen & paper, Word doc, Myfitnesspal, Baritastic
- Balanced meals ("half your plate")
- Mindful eating (slowly, chewing food well)
- Time to eat meals: over 20-30 minutes
- Structured mealtimes:
 - Breakfast within 60-90 minutes
 - Meal & snack within range of every 2 to 4 hours

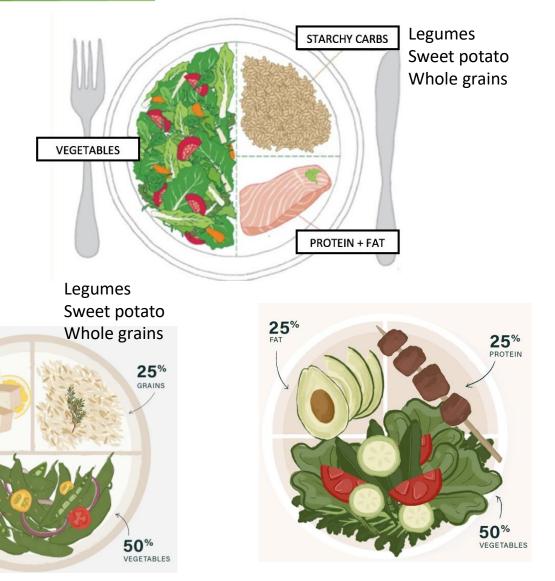
Nutrition Foundation

- Consume 1.5-2 liters of <u>calorie-free</u> fluids per day
- Reduce to eliminate sugar-sweetened, carbonated beverages, alcohol, and caffeinated beverages
- De-caffeinated beverages allowed
- Separating solids & liquids by 30 minutes
- Eats out (restaurant, take out, fast food) less than 2 times per week

Balance - Half Your Plate

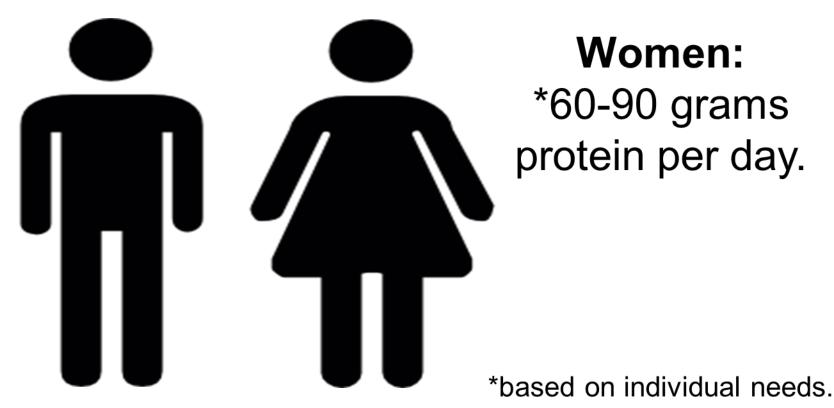
PLANT-BASED

- Protein spread throughout the day (meals & snacks)
- Vegetables eaten at 2 separate meals or more, per day
- Fruit consumed at least once per day
- High dietary fibre
- Healthy fats



How much Protein?

Men: *70 – 100 grams protein per day.



Height (feet & inches)	Height (~cm)	Protein requirement (grams per day)		
4'11"	149.9	56 – 84		
5'0"	154.2	59 - 88.5		
5'1"	155	59.5 – 89		
5'2"	157.5	61.5 – 92		
5'3"	160	63.5 – 95		
5'4"	162.5	65.5 – 98		
5'5"	165	67.5 - 101		
5'6"	167.7	70 – 105		
5'7"	170	72 – 108		
5'8"	172.7	74 - 111		
5'9"	175	76 - 114		
5'10"	177.8	78.5 - 118		
5'11"	180.3	80.5 - 121		
6'0"	182.8	83 - 124		
6'1"	186	86 - 129		
6'2"	189	89 - 133.5		
6'3"	192	92 - 138		

Protein requirement:

Snacks = 5-15g



÷	Patie	ent name:	Patient Name
	NUTE	RITION AND EATING	BEHAVIOUR CHECKLIST
	х	Tracking all food & b	beverage intake (<u>e.g.</u> pen & paper, online, app) most days
	х	Has a sense of food	portion amounts having a food scale and household measuring cups and spoons
		Eliminated caffeine,	carbonation, alcohol, and all sugar-containing beverages
	х	Drink 6-8 cups (1.5-2	2 L) of water per day, practicing sipping on water all day long in between meals
	Х		tein target for each day as determined by dietitian. er day (height 177.8; based on IBW BMI 24.9 / 25.0 kg/m2, 1.0 - 1.5 g/kg)
		Supplements: Labs:	Dec 2020 Vit D 28, Vit B12 181
	х	Eat within 60-90 mir	nutes of waking
	х	Eat every 2-4 hours	throughout the day
			y (without distraction) and chew food thoroughly (20 bites, thinking applesauce 20-30 minutes to finish main meals
		Separating liquids ar	nd solid food by 30 minutes
	Х	Eats out (restaurant	, take out, fast food, cafe) less than twice per week (≤ 2)
	Х	Plans food & meals i	in advance, avoids skipping meals
	Х	More home-prepare	ed meals and from wholesome, minimally processed foods
	х		-3 servings per day (serving ½ cup) and vegetables at two separate meals every day erving ½ cup or 1 cup leafy greens)
	Х	Good basic nutrition	n knowledge
			king hard and food planning more and now meeting the nutrition and eating npleted <u>4 week</u> Bariatric Education Module and 8 week Bariatric Preparedness
			n separating solids and liquids by 30 minutes and working on eating slowly mindful

Movement



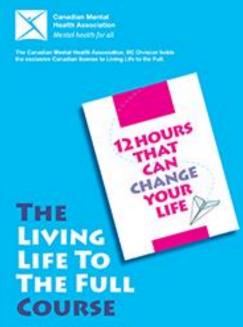
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Mental Health



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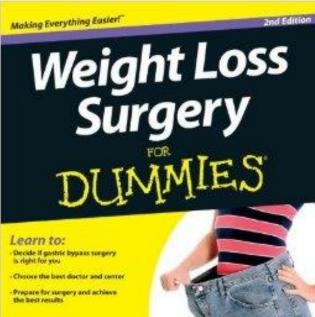


Feeling low? Stressed? Anxious? Bounce Back can help!



If required, letter from your counselor, psychologist, psychiatrist or family doctor

Additional Readings



Marina S. Kurian, MD **Barbara Thompson** Brian K. Davidson



The Complete Weight-Loss Surgei **Guide & Diet Program**

Includes 150 Delicious & Nutritious Recipes



Sue Ekserci, RD with Dr. Laz Klein, MD

A NEW HARBINGER SELF-HELP WORKBOOK

The Weight Loss Surgery Workbook

Deciding on Bariatric Surgery,

Preparing for the Procedure, and Changing Habits

for Post-Surgery Success



Doreen A. Samelson, EdD, MSCP | Foreword by Arnold D. Salzberg, MD

Important Reminders

- The time that you're spending on the waitlist to orientation should not be "wasted time"
- Improving your lifestyle habits starting TODAY will improve your health immediately, as well as shorten the length of time you spend during pre-op conditioning after you do join the program



Source: Pre-orientation conditioning information session http://www.vch.ca/your-care/hospital-care/surgery/metabolic-bariatric-surgery



Fund More

procedures.

Bariatric Surgery

Help advocate for people waiting for bariatric surgery. Sign the

Petition to request the Government

of BC to fund more bariatric

Richmond Metabolic and Bariatric Surgery offers the full-spectrum of Bariatric Surgery services to our patients via our comprehensive, multidisciplinary team and outstanding long-term patient support.

Check out our website to learn more about the disease of obesity and the surgical treatments that are available to help. See if bariatric surgery is the right choice for you!

Website:

http://www.rmbsurgery.com/