#### METABOLIC & BARIATRIC SURGERY INFORMATION SESSION

https://www.marshfieldclinic.org/specialties/bariatric-surgery

Marshfield Clinic<sup>®</sup> HEALTH SYSTEM MARSHFIELD MEDICAL CENTER

# This session is FREE

- Topics
  - Questionnaire, Folder, Exam.
  - Obesity and health risks
  - Am I a candidate for surgery ?
  - Timeline/Process
  - Insurance
  - Dietary
  - Behavioral health
  - Procedures



#### Terms

- Metabolic
  - Cellular changes
- Bariatric
  - Medical treatment of weight
- Body Mass Index (BMI)
  - BMI = body weight (in kg) ÷ height (in meters) squared
- Obesity
  - Medical diagnosis, (BMI) ≥30 kg/m<sup>2</sup>
- Morbid obesity
  - Medical diagnosis, (BMI) ≥40 kg/m<sup>2</sup>

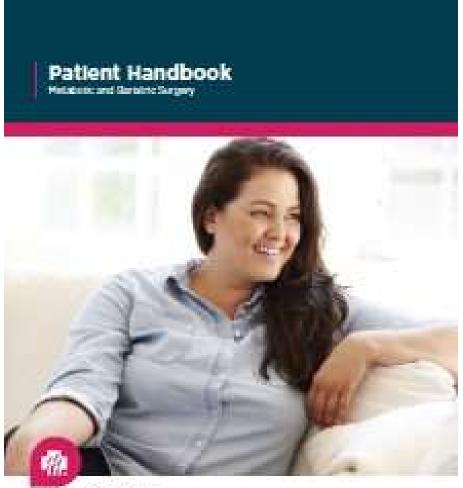


### Metabolic and Bariatric Surgery Accreditation

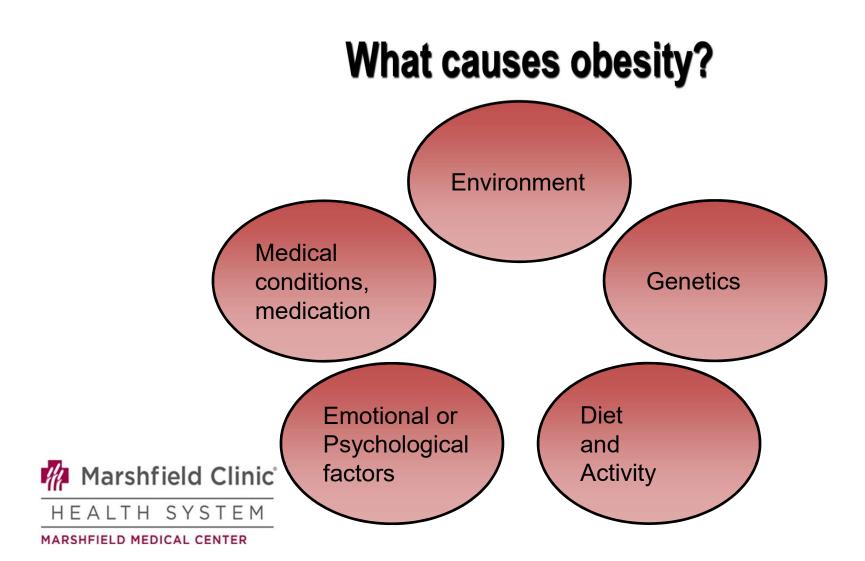
Marshfield Medical Center is designated an MBSAQIP (Metabolic and **Bariatric Surgery Accreditation** and Quality Improvement Program) Accredited – **Comprehensive Center by the** American College of Surgeons and **American Society of Metabolic** and Bariatric Surgeons.

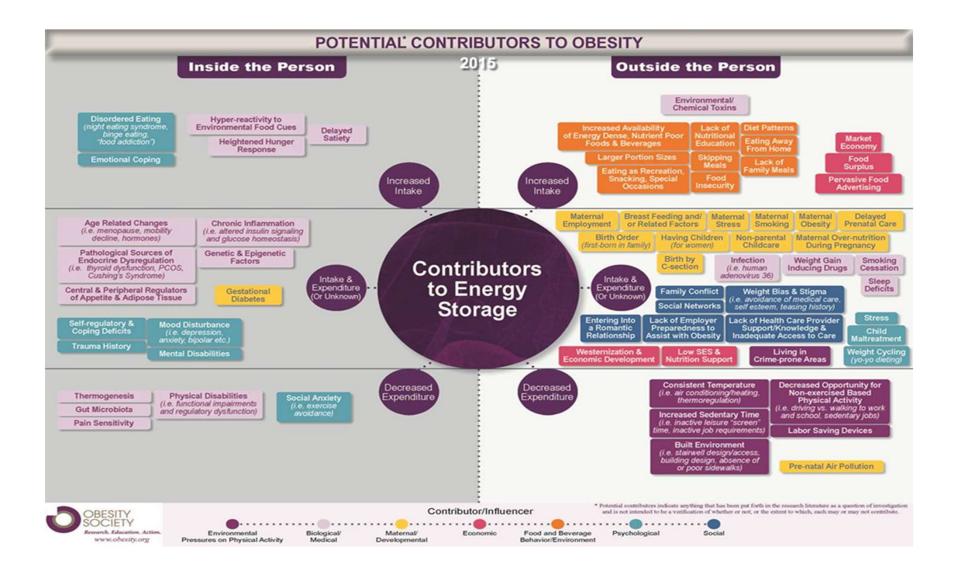






Harardishi (Dog Hasti's System)



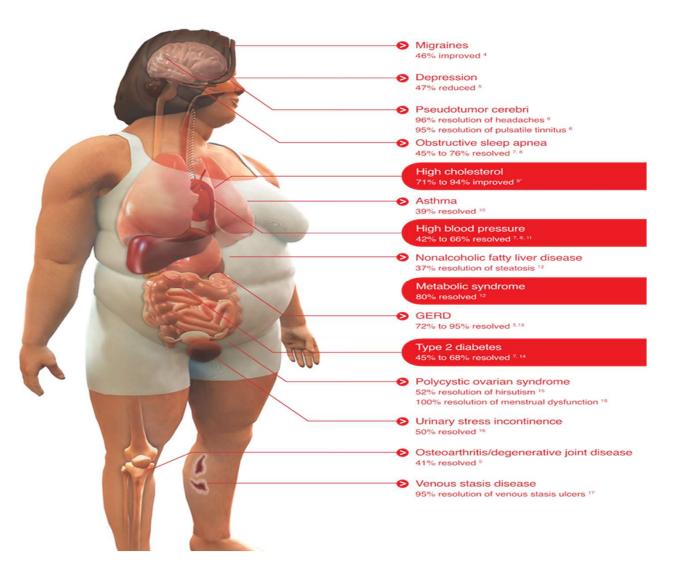


# **Obesity Related Disability**

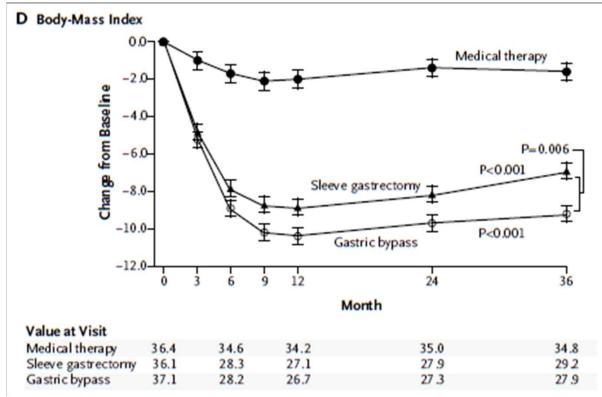
- Heart disease
- Vascular disease
- Blood pressure
- Cholesterol
- Edema
- Obstructive sleep apnea
- Diabetes
- Kidney disease
- GERD

- Infertility
- Anxiety/depression
- Muscle/joint problems
- Cancers
- PCOS
- Urine incontinence
- Venous stasis
- Asthma
- Quality of life

### What Health Issues Improve with Weight Loss?



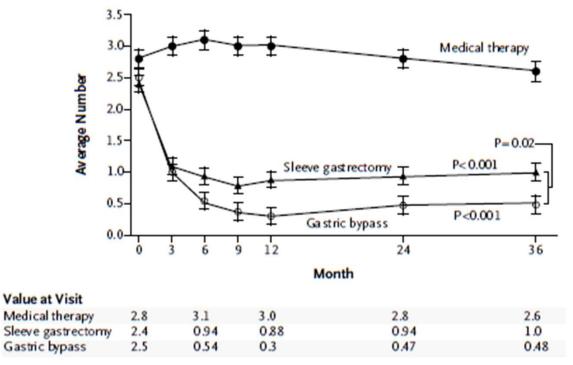
## Medical Care vs Surgery for Weight Loss



STAMPEDE Trial conducted at Cleveland Clinic by Phillip Schauer MD et al. N Engl J Med. 2014;370(21):2002-13. The final 5-yr data 2/2017 confirmed the previous 3 years of data.

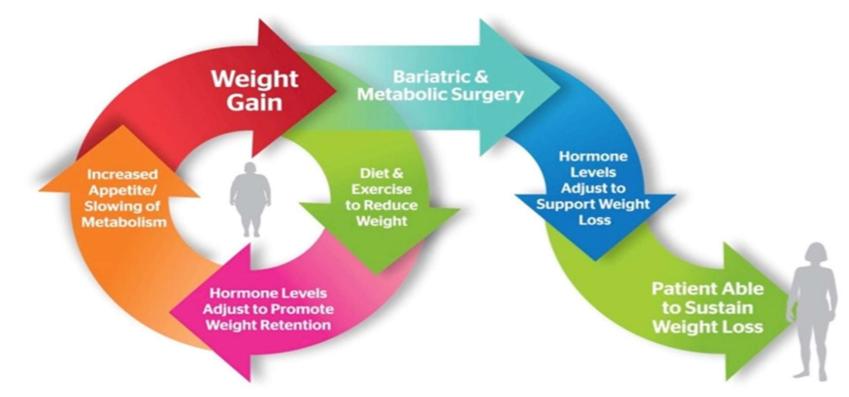
## Medical Care vs Surgery for Diabetes

C Diabetes Medications



STAMPEDE Trial conducted at Cleveland Clinic by Phillip Schauer MD et al. N Engl J Med. 2014;370(21):2002-13. The final 5-yr data 2/2017 confirmed the previous 3 years of data.

### Metabolic & Bariatric Surgery Breaks the Weight Loss & Regain Cycle



### Metabolic and Bariatric Surgery to Improve Health

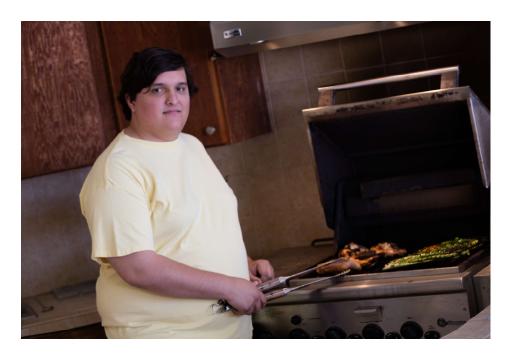
- Bariatric surgery is a Tool
- Requires Lifestyle changes by You
- We are your Coaches to help you reach a healthier weight and maintain it
- Our Team is here to Support you







# Am I a Candidate for Bariatric Surgery?





Images used with permission of Obesity Action Coalition

# **STEP 1** Do personal

#### inventory -

#### • BMI

#### About Morbid Obesity

#### What is Body Mass Index:

The term "morbid obesity" is a **medical dlagnosis** used when excess weight has caused, or is likely to cause, other medical problems. In general, an individual is considered morbidly obese if their weight is roughly 100 pounds over his or her ideal body weight (IBW) (See "Ideal body Weight Chart"). A commonly used method to measure weight as it relates to health is the Body Mass Index (BMI).

The BMI is calculated with a formula using your height and weight: BMI = weight (kg) ÷ height (m2) A much easier way to determine your BMI is by using a BMI chart. Find your height in the columns on the left and follow that row across to your current weight; your BMI is at the top of that column. Once you know your BMI, use the chart below to determine your BMI classification.

BMI	CLASSIFICATION			
Below 18.5	Underweight			
18.5 to 24.9	Healthy weight			
25 to 29.9	Overweight			
30 to 34.9	Class I Obesity			
35 to 39.9	Class II Obesity			
40 or greater	Morbid Obesity			

	Body Mass Index																									
Class I Obesity				Class II Obesity			Morbid Obesity																			
E	BMI	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Height	Height (inches) Weight (in pounds)																									
58	4'10"	143	148	153	158	162	167	172	177	181	186	191	196	201	205	210	215	220	224	229	234	239	244	248	253	258
59	4'11"	148	153	158	163	168	173	178	183	188	193	198	203	208	212	217	222	227	232	237	242	247	252	257	262	267
60	5'0"	153	158	163	168	174	179	184	189	194	199	204	209	215	220	225	230	235	240	245	250	255	261	266	271	276
61	5'1"	158	164	169	174	180	185	190	195	201	206	211	217	222	227	232	238	243	248	254	259	264	269	275	280	285
62	5'2"	164	169	175	180	186	191	196	202	207	213	218	224	229	235	240	246	251	256	262	267	273	278	284	289	295
63	5'3"	169	175	180	186	191	197	203	208	214	220	225	231	237	242	248	254	259	265	270	278	282	287	293	299	304
64	5'4"	174	180	186	192	197	204	209	215	221	227	232	238	244	250	256	262	267	273	279	285	291	296	302	308	314
65	5'5"	180	186	192	198	204	210	216	222	228	234	240	246	252	258	264	270	276	282	288	294	300	305	312	318	324
66	5'6"	186	192	198	204	210	216	223	229	235	241	247	253	260	266	272	278	284	291	297	303	309	315	322	328	334
67	57"	191	198	204	211	217	223	230	236	242	249	255	261	268	274	280	287	293	299	306	312	319	325	331	338	344
68	5'8"	197	203	210	216	223	230	236	243	249	256	262	269	276	282	289	295	302	308	315	322	328	335	341	348	354
69	5'9"	203	209	216	123	230	236	243	250	257	263	270	277	284	291	297	304	311	318	324	331	338	345	351	358	365
70	5'10"	209	216	222	229	236	243	250	257	264	271	278	285	292	299	306	313	320	327	334	341	348	355	362	369	376
71	5'11"	215	222	229	236	243	250	257	265	272	279	286	293	301	308	315	322	329	338	343	351	358	365	372	379	386
72	6'0"	221	228	235	242	250	258	265	272	279	287	294	302	309	316	324	331	338	346	353	361	368	375	383	390	397
73	6'1"	227	235	242	250	257	265	272	280	288	295	302	310	318	325	333	340	348	355	363	371	378	386	393	401	408
74	6'2"	233	241	249	256	264	272	280	287	295	303	311	319	326	334	342	350	358	365	373	381	389	396	404	412	420
75	6'3"	240	248	256	264	272	279	287	295	303	311	319	327	335	343	351	359	367	375	383	391	399	407	415	423	431
76	6'4"	246	254	263	271	279	287	295	304	312	320	328	336	344	353	361	369	377	385	394	402	410	418	426	435	443

#### Personal Inventory

- Health status
- Motivations
- Diet history
- Funding options
- Timing
- Support system
- Commitment long-term

Refer to Metabolic & Bariatric Surgery Handbook for additional details.

#### Step-By-Step Process to Bariatric Surgery

#### Step 1: Initial Screening Criteria

Determine whether you meet the screening criteria determined by the National Institutes of Health.

My Body Mass Index (BMI) is 40 or greater

#### OR

- My BMI is 35 or more and I am treated for one or more of the following obesityrelated health conditions:
  - Type 2 diabetes
  - \_\_\_\_ Obstructive sleep apnea
  - High cholesterol or high lipids
  - High blood pressure
  - Coronary artery disease
  - Heart failure (Cor pulmonale)
  - Degenerative joint disease in hips, knees, or back
  - \_\_\_\_ Reflux disease (GERD)
  - \_\_\_\_ Asthma
  - Obesity hypoventilation syndrome
- I have made serious attempts at weight loss in the past
- I am able to understand the risks and potential complications associated with bariatric surgery.
- I am motivated to make permanent changes in my diet, level of activity, and lifestyle to lose weight and improve my health and well-being
- I agree to adhere to life-long medical management and the recommendations of my healthcare providers

#### Step 2: Verify Insurance Coverage

Determine if bariatric surgery is a covered benefit of your policy and the preoperative requirements stated on your policy. If you do not know your policy coverage for bariatric surgery or your insurance company's requirements, call the customer service number on your member card. If you have trouble getting this information, you may contact our Patient Assistance Center for assistance at 800-782-8581 or 715-387-5165.

#### Step 3: Candidate Evaluation

Our preoperative evaluation follows national guidelines and standards. The purpose is to determine whether bariatric surgery is the best option for you to reduce your weight and improve your health. During the evaluation process, we strongly encourage you to learn all you can about bariatric surgery and the permanent lifestyle changes required after surgery- ask questions and discuss your concerns.

Insurance requirements differ from one company to the next, but most include a comprehensive evaluation with psychological testing and a physician-supervised weight management program.

#### Nutritional counseling

Typically, several months participation in a physician-supervised weight management program is required. If your dietitian is outside of the Marshfield Clinic system, we can provide teaching materials, if requested. This way we can help to insure that each patient has the educational material that is critical to success after bariatric surgery.



#### MINIMUM Metabolic & Bariatric Surgery Program Requires:

- Information session
- Physician Assistant or Surgeon visit
- 2 support groups
- 3 monthly dietitian visits in a row
- Bariatric psychology evaluation/testing after 2 dietitian visits completed
- Other visits as requested or needed



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#### Appointment Record

ndividual)	Date	
	Date	
		Dietition
utritional		
ounseling		
	Date	Psychologist
chological		
<u></u>	Date	Location
port Group		
Meetings		7
	Date	Location
Other		
pointments		
oport Group Meetings	Date	Location

#### Minimum Requirements – Special Reminders

- Additional visits Your bariatric providers may request additional visits as needed based on your health condition(s), ability to comply with plan, etc. E.g. nutrition, physical therapy, other health providers, etc.
- Drop out or Delay If you are not able to complete the program and drop out or delay for any reason, may need to redo everything depending on time passed and circumstances.
- Mental Health If you have mental health provider, they must provide the bariatric team with letter or communication that your condition is stable.
- Insurance Our program requires a minimum of 3 months of dietitian visits, but insurance frequently requires 6 months of dietitian visits for supervised medical weight loss and bariatric surgery preparation.



## **Special Reminder**

## • Weight

- Weight loss is expected during the preparation phase
- Weight loss is required if BMI > 70 or as directed
- Weight gain may result in either denial, delayed, cancelled surgery



# Timeline – 6 Mo. Dietitian - Most Common

Month 1-2				
Information session,				
PA visit,		Month 8-9		
Get outside records,		Team review,		
Verify insurance,		Insurance approval,		
Support group		Support group		
	Month 2-8		Month 9-12	
	6 Dietitian,		Schedule surgery,	
	Psychology evaluation,		Support group,	
	Support groups (2),		Surgery,	
	Other visits to get/keep all healthcare up to date		Follow-up	

## Timeline – 3-4 Months Dietitian

Month 1-2 Information session, PA/surgeon visit, Get outside records, Verify insurance, Support group		Month 5-6 Team review, Insurance approval, Support group		
	Month 2-5 3-4 Dietitian visits, Psychology evaluation, Support groups (2) & Other visits to get/keep all your healthcare up to date		Month 7-10 Schedule surgery, Support group, Surgery, & Follow-up	

# **STEPS TO SUCCESS and SAFETY**

- Attend appointments, bring your binder
- Manage other health conditions
- Annual physical and dental care up to date
- Daily activity
- Lose/maintain weight during preparation

# **STEPS TO SUCCESS and SAFETY**

- Stop smoking or using any nicotine products 3 months before surgery. We will confirm with lab tests as needed.
- Sleep apnea if need CPAP wear it every night. If have trouble go back to provider ASAP to try different options. We check download to verify unless documented by provider you failed CPAP.
- Diabetes A1c must be < 9.
- Females capable of childbearing Adequate birth control in place 12-18 months after surgery.



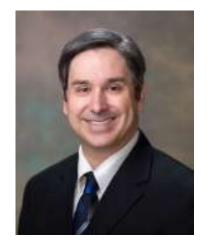
## Open vs. Laparoscopic Surgery Approach





### Meet the Surgeons

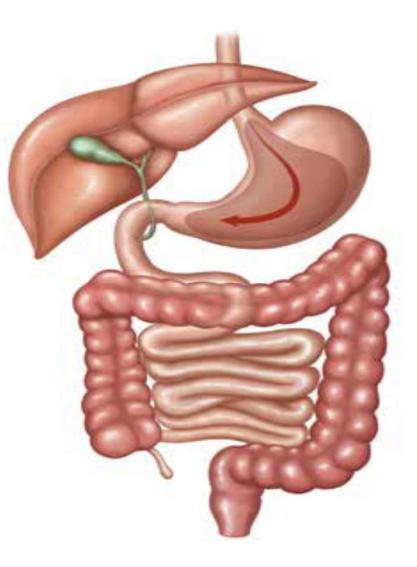
Dr. Julio Bird Fellowship: MIMIS, Minnesota MD, FACS



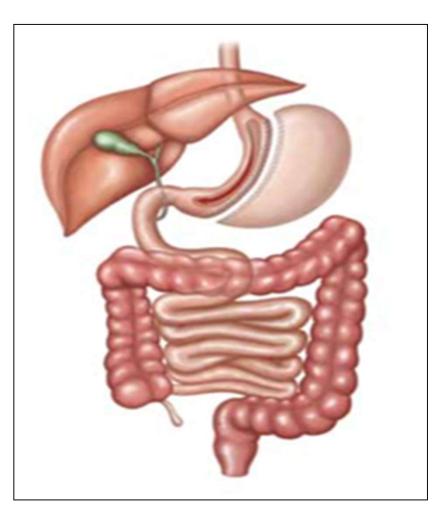
Dr. Vijaya Nirujogi Fellowship: Cleveland Clinic, Ohio MBBS, MD, MS, FRCS, FACS, FASMBS



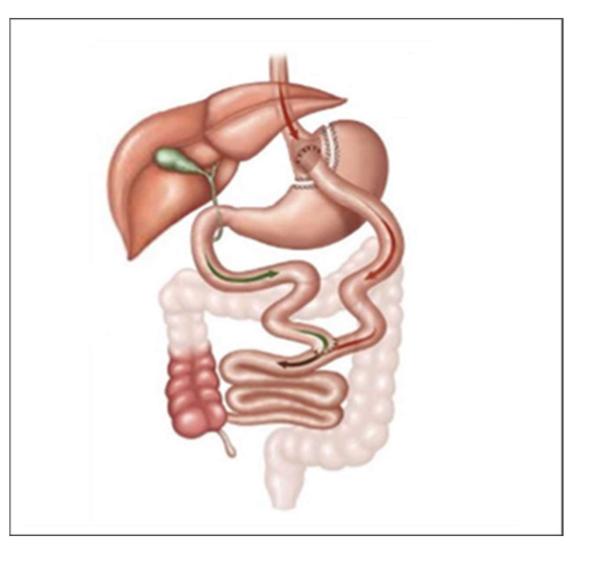
## Normal Anatomy



### Sleeve Gastrectomy



## Roux-en-Y Gastric Bypass



#### Metabolic and Bariatric Surgery Procedure Comparison

	Sleeve Gastrectomy	Roux-en-Y Gastric Bypass	
Weight Loss and DM 2 Resolution Speed	Fast	Faster	
Excess Weight Lost (average or range)	60% 2 yrs. 40-86% 5 yrs. 40-77% 6-9 yrs.	70-75% 2 yrs. 42-93% 5 yrs. 42-82% 10 yrs.	
Restrictive or Malabsorptive	Restrictive	Restrictive and malabsorptive	
Vitamin Deficiency Risk	medium	high	
Average Hospital Stay	1-2 nights	1-2 nights	,

# Weight Loss Comparisons

	Medical Care Only	Sleeve Gastrectomy	Roux-en-Y Gastric Bypass
Average Weight Lost from Baseline (Percent or Pounds)	10yr. 7%* 12 yr. (~0-6.4 lbs.)**	1 yr. 23%* 4 yr. 18% (~56 lbs.)*	1 yr. 31%* 2yr. (~ 99 pounds)** 4yr. 27.5% (~ 90 lbs.)* 10yr. 21% * 12 yr. (~77 pounds)**
Average Excess Weight Lost (Percent) Data compiled from multiple sources • + Lim, Robert B. Uptodate.baiatric procedures 10-4-18 • * jamasurg.2016.2317 • ** N Engl J Med 2017;377;12 • # ASMBS position statement long-term durability of wt. loss and diabetic outcomes	10yr. 7.7%*	2 yr. 60% (55-80%)+ 4 yr. 43%* 5yr. 60% (40-86%)# 6-9 yr. 58% (46-77%)# 10 yr. 53% #	2 yr. 70% (60-85%)+ 4yr. 60%* 5yr. 65% (42-93%)# 6-9 yr. 56% (42-72%)# 10yr. 56.4%* 10yr. 59% (52-82%)# >10yr. 51% (49-59%)#

### Follow-up Expectations: Minimum

- 1-2 weeks
- 1 month
- 3 month
- 6 month
- 1 year
- Annually, LIFELONG.
- Multivitamins with iron & Calcium with Vitamin D LIFELONG, others as needed!



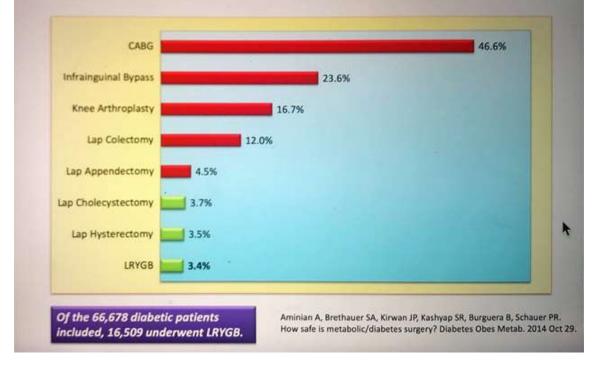
### **Possible Complications**

- Blood clots legs, heart, lungs, brain, etc.
  - Could be life threatening and/or decrease quality of life
- Smoking/nicotine use leads to decreased oxygen to organ tissues
  - Poor healing
  - Wound infection or other problems
  - Overall organ function decreased
  - Ulcers possible long term
  - E-cigarettes, vapes, water/hookah pipes, mods, patches, gum, lozenges, pipe tobacco, cigars, chew, snuff, smokeless
  - E-cigs contain other harmful substances, including non-nicotine e-cigarette versions
  - None allowed 3 months or more before surgery and NEVER after surgery
- Leaks, ulcers, strictures, infection, nutrition
- Transfer addictions alcoholism, gambling, etc.



#### Safety

#### US National Data of Postoperative Composite Complication Rate (%) of 8 Procedures in Patients with Type 2 Diabetes





## Next Step

- Schedule Bariatric Physician Assistant visit.
- If you have commercial insurance other than Security Health Plan, can call them and find out their requirements.
- Follow recommendations from all providers.
- Bring **booklet** with you to all appointments.



### **RESOURCES & SUPPORT**

Financial questions should be directed to:

Patient Assistance Center at 715-389-4475



#### THANK YOU We are honored to serve you

