This is the beginning.

Only you make the choices that
One day at a time changes your Life!

Keep on track.
Implement change, and

TAKE CONTROL.
Congratulations on your decision to undergo Gastric Banding surgery!

You have made a very important, life changing decision and it is our job to provide you with the information and education that you need to make the most effective use of this very powerful tool.

This guide is designed to provide you with an understanding of the Gastric Banding System and information on how to navigate through the process to achieve the health and weight loss you desire.

You must enter this process fully committed and with a solid understanding of the risks of surgery, the health and weight loss expectations and what we need of you as a patient in order to assist you in the most effective way possible. We are here to support you. The surgery is only the beginning and you must enter into it with the expectation that it’s a life-commitment and a lifetime of follow-up and strict adherence to the program is essential.

Dr. Julie Ellner

www.ellnerbariatric.com

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Pre Op Process

You will be expected to go through a pre-operative process, which will be scheduled for you before gastric banding surgery. Your physical with Dr. Ellner may be one day or as long as one week prior to surgery. You will talk about the procedure in detail with Dr. Ellner. She may also want you to meet with other experts. They can help you understand what will happen during and after the operation. These experts might include a dietitian, physiotherapist, psychologist or other specialists. You will also need to have a number of tests before your surgery. These are to evaluate your health.

Pre Op events may include:

Registration at the hospital

You will complete hospital registration information, which will also verify your insurance coverage. Please have all insurance cards and your deposit (if applicable) with you.

Blood Draw at the Hospital Lab (after registering)

You will undergo a last set of lab testing on your blood, to ensure that you are not anemic and that you haven’t caught an infection that would complicate your surgery.

Meeting with an Internist

You may also have an appointment with an Internal Medicine doctor who may need to see you after surgery as well, to manage medical issues (diabetes, hypertension, etc) after surgery. He may also perform an EKG and brief physical exam.
Meeting with Dr. Ellner

You will meet with Dr. Ellner to go over all the details of your medical records one last time. This will also be your opportunity to ask any questions that you have regarding any aspect of your surgery or recovery. If you have lots of questions, you might find it helpful to make a list to bring with you. After your discussion you will undergo a full physical examination.

Pre-Operative Education

You will receive pre-operative education regarding exactly what to do the day of surgery, where to go at what time, etc. You will sign consent forms as well as receive very important instructions on how to deep breathe after surgery, so you minimize your risk of complications.

Night Before Surgery

Do not eat or drink anything after midnight. Food in your stomach can be very dangerous if you vomit during surgery. So make sure your stomach is empty. That said, if Dr. Ellner instructs you to take a pill, just take it with a sip of water.

Support

It’s a good idea to ask a friend or family member to be at the hospital with you for comfort and support. This is an emotional time, and you’ll want a friend or family, as well as support groups to help you through it. Be sure to arrange for someone to drive you home and stay with you the first night. Under NO circumstances should you drive yourself.
What to Expect the Day of Surgery

You must arrive a couple of hours before your scheduled operation in the Same Day Surgery Department. If you would like to bring a family member with you to keep you company during this time, you may do so. During this time, you will be answering the same questions from several different staff. Be patient, as this is for your safety- we check and double check all of our information with you so no mistakes are made. An IV will be started, antibiotics and blood thinners will be administered and you will put on your designer, one-of-a-kind, backless daywear. Actually it’s a hospital gown.

You will then be transported to the Pre-Op Holding Area, right next to the Operating Room. You will meet your anesthesiologist and one of the nurses that will be in the room with you during your surgery. You may ask the anesthesiologist for a dose of anti-anxiety medication at this time if you like. We are very sensitive to the fact that this might be a scary time for many folks, so don’t be shy about asking for this.

In the Operating Room

When the room is prepared for you, you will be taken, on a gurney, into the operating room. You might find that it is a little chilly, but we will bundle you up with blankets so you’ll be quite warm. The nurse will place a safety belt across your body, and pads and pillows may be placed underneath your legs. Your arms will be extended out from your sides and softly padded.

The anesthesiologist will give you IV medications that will make you drowsy and you will inhale oxygen and anesthetic gases that will make you drift off to sleep. Once you are asleep, a tube will be placed through your mouth, into your trachea (windpipe) to deliver oxygen and anesthetic gases
to your lungs. A combination of IV and inhaled gases will keep you safe and asleep for the surgery. The tube will be removed as soon as you awaken, so you will likely have no recollection of its having been there at all.

**The Process of Gastric Banding Surgery**

Surgery begins with a small cut near the belly button.

Your belly is filled with a gas to create space so it’s easier for Dr. Ellner to operate.

Then the laparoscope (camera) is placed. It’s very thin, about the size of a pencil. It has a light and a tiny camera that sends a picture to a TV screen.

4 or 5 other small cuts are then made nearby so thin tools can be inserted.

Using these tools, a little tunnel is made through the tissue behind your stomach.

The band is wrapped around the upper part of your stomach and a buckle like mechanism secures it. This creates the small pouch that will be your new stomach.

To help hold the band in place, stomach tissue is folded over the band and stitched together.

Next, the small port, which is attached to the band by a tiny tube, is placed just under your skin. This is where saline (sterile salt water) is injected later during adjustments.

The tools are removed and the incisions are closed.

Finally, numbing medication may be injected around the incisions so you’ll be more comfortable when you wake up.

The following drawings show what the Band looks like and how it limits the size of your stomach.
After Gastric Banding Surgery

Once the anesthesia has worn off, you may feel muscle soreness, as though you just did a lot of sit-ups. This is usually relieved with ordinary pain medication, however, stronger pain medication will be available to you if needed. The hospital staff will help you get out of bed and start moving as soon as possible. This is critically important and will help prevent blood clots, respiratory problems and bedsores.

You may be given an X-ray. This is to confirm that the lap-band is in correct position. It is also to see that the new stomach outlet (stoma) is open. Dr. Ellner may just ask you to sip some water. If you can drink liquid without it coming back up, the stoma is open. Once you can walk and drink comfortably, you can go home. Again, you must make sure you have someone to drive you.

Eating and drinking after the operation

After your surgery you will start with a liquid diet and move slowly toward eating solid food again. It is very important to follow the eating and drinking instructions right from the start after the operation. Your stomach needs time to heal and hold the band in place. It may take a month or more for this to happen. It is important, especially in the early weeks, not to stretch the small stomach pouch above the band. Vomiting can do this, so it is important NOT to vomit. Vomiting can lead to tearing of the stitches and stomach tissue slipping up through the band, which can be life-threatening and requires emergency surgery.

The first few days after the operation

Right after the operation you should drink 64 oz total of water, broth, jello, and most importantly, protein drinks, per day. All of these fluids count toward your 64oz total. But you should take only a small amount at a time. The idea is to
avoid becoming nauseated and vomiting, since there is a high risk of band slippage right after surgery when vomiting occurs.

**Your new Nutrition Plan**

Dietary habits are hard to change, but the effects of surgery and the post-operative liquid diet make it easier to begin new habits. You will be scheduled for an educational visit in the office about a week after your surgery to help teach you how to manage your new band safely and effectively. Don’t miss it!

**Month One**

Liquid Proteins ONLY

Your first meals after surgery will consist mostly of liquid protein drinks carefully balanced to provide adequate vitamins and nutrients for proper surgical healing, while still permitting weight loss. It is unlikely that you will feel hungry; most patients must make an effort to drink the proper volume of liquid diet. In addition to the protein drinks, you may have V8 or tomato juice, diet Jello, bouillon cube soup and water. You need to ensure that you receive 60-80 grams of protein per day so the protein drinks are the most important item on your food list.

**Choosing Protein Drinks**

There are many protein drinks available online and in nutrition stores as well as Wal-Mart, some drugstores and discount warehouses like CostCo and Sam’s Club.

You must read the labels carefully, however, as many drinks are not appropriate for Gastric Banding patients. Choose a protein drink that meets the following requirements:
• Less than 4g of sugar
• Less than 4 carbs
• If you must mix it with liquid, it must be mixed with WATER ONLY. NO mixing with juice, milk, fruit, yogurt or other food or drink!
• The amount of protein varies for each drink, but you must meet your 60-80g grams per day total

**Your First Adjustment**

Approximately four weeks after surgery you will receive your first adjustment, or tightening. It is important to always drink only fluids (as above) for 48 hours after EVERY adjustment!

**Weeks 5 and 6**

**Transitional Soft-Food Meals**

This diet does not require much chewing. Good foods to eat during this period include scrambled egg whites, low-fat lite yogurt, broth soups, tomato soup, split pea and lentil soup, pureed meats like chicken or turkey, pureed vegetables, nonfat cottage cheese. Remember - the recommended daily intake of protein is 60-80 grams. You should supplement your food intake with protein drinks to meet this goal. You will receive more detailed instruction in the education a week after surgery, so it’s important to re-read the slides from this presentation during this time.

When not eating, drink plenty of water. As noted in the slide presentation, do not drink during a meal or within one hour after. The reason for this is that fluids taken during the meal will flush more food through, and keep you from feeling full and satisfied.
Week 7 Onward

Regular Meals

When you can eat solid foods without problems, you will need to pay close attention to your diet. Liquids will pass through the reduced stomach pouch quickly and will not make you feel full.

**You should avoid high calorie drinks such as fruit juice, milk, yogurt drinks, and ALL soda, tea (herbal is okay) and coffee from this point on.**

Softer foods will also pass through relatively quickly, which is why the transition to solid MEAT protein is so important. Meat-based protein found in chicken, fish, red meat, etc. will keep you satisfied longer and prevent you from eating too much food in one sitting.

Too much food or big chunks of food can block the stomach pouch outlet. You can avoid this problem by chewing food well and eating small bits at a time. You MUST cut up your food into small pieces, roughly pencil eraser-sized. Meat protein can get stuck if you take too large of a bite despite chewing the food well. The bite size should go INTO YOUR MOUTH pencil eraser-sized.

Details about how and when to eat are in the slide presentation that you receive one week post-op.

Lean meats, vegetables, and a small amount of fruit should become your dietary mainstays. Fats, concentrated sugars, and snacking are to be avoided. Meals are necessarily small and food should be well chewed. If solid foods cause nausea and vomiting, go back to the liquid diet for 48 hours, then slowly advance back to soft mushy, then regular food.
Here are some additional food tips:

- Bake, broil, or BBQ meats - do not fry foods!!! Avoid foods that are greasy or fried.
- Read labels. Some foods are surprisingly high in sugar and fat; for example, baked beans, BBQ sauce, salad dressings, mayonnaise, butter and spaghetti sauce.
- Spice to taste. Salsa is a great taste to add to eggs, salad, fish and chicken.
- Use nonfat dressings and spreads. Use Equal or Sweet & Low. Avoid sugar.

Lean Protein Sources

Remember to eat enough protein. Our bodies need the amino acids and other building nutrients found in protein foods. Protein builds and repairs muscle, and is an energy fuel. Patients should take in 60-80 grams of protein a day.

- Turkey, chicken, or beef - purchase 97% lean meat
- Baked, broiled, or BBQ skinless chicken, white turkey meat, fish
- Ground or chopped chicken or turkey (white meat) for salads (use nonfat dressing)
- Lean deli meats (turkey, chicken)
- Water packed tuna (1/4 cup = 1 oz meat)
- Egg whites or egg substitute. (Yolk has all the cholesterol and fat, whites are pure protein)
- Nonfat Lite yogurt
- Kidney beans, navy beans, lima beans, pinto beans
- Nonfat cottage cheese
- Fish baked or broiled
- Lowfat mozzarella string cheese

Foods to AVOID

- Nuts of any kind
- Protein Bars
- Cereals (breakfast flakes, oatmeal, cream of wheat)
• Sunflower seeds
• Milk of any kind, cream
• Butter, mayonnaise (substitute with nonfat)
• Potatoes
• Potato chips
• All cheeses (except low fat mozzarella, as above)
• Peanut butter
• Cream soups
• Trail mix
• Ice cream and sorbet
• Sherbert
• Cookies, cakes, popcorn, pies
• Crackers
• Breads
• BBQ beans and sauce
• Granola
• Creamy sauces (Alfredo)
• Muffins, coffee cakes, donuts

Important Rules

1. Eat only when you start to feel low blood sugar. Do not eat when you don’t feel low blood sugar.

2. Always eat your protein first! Each meal should be at least 70-75% protein!

3. Cut your meat into pencil eraser-sized bites.

5. Eat slowly and chew thoroughly (approximately 15-20 times per bite).

6. Eat only until your low blood sugar feeling goes away! It is counter-productive AND dangerous to continue to eat until you feel physically full and uncomfortable when you have a band in place!
5. Do not drink while you are eating.

6. Avoid very fibrous and stringy food (like celery).

7. Exercise is critical. You must follow the guidelines in the slide presentation. Weight lost by dieting only inevitably returns!

Why the rules are important and how to make them work

**Rule#1.** Eat only when you start to feel low blood sugar. This will be 1-2 times per day, depending on how much protein you drink during the day. The Gastric Banding System creates a small stomach pouch that can hold only about half a cup (4-5 ounces) of food. If you try to eat more than this at one time you may become nauseated and vomit. If you routinely eat too much, the small stomach pouch may stretch. That will cancel the effect of the operation. Frequent vomiting can also cause certain complications such as stomach slippage. You need to learn how much your stomach pouch can hold comfortably and then not exceed this amount.

**Rule#2.** Always eat your protein first. Each meal should contain at least 70-75% protein. This is the most important part of your meal and since you don’t have much room in your stomach, you must be sure to get enough in each meal. Additionally, protein is what gives us a sense of fullness and satisfaction, so it’s important to put that into the system first.

**Rule#3.** Cut your meat into pencil eraser-sized bites. Eat slowly and chew thoroughly. Food can pass through the new stoma only if it has been “chopped” into very small pieces. Always remember to take more time for your meals and chew your food very well.
**Rule#4.** Stop eating when your low blood sugar feeling has gone away. Pay close attention to how you feel before and during your meal. It takes time for you to become aware of this signal. If you hurry your meal, you may eat more than you need. This can lead to nausea and vomiting. Take time over your meal. You must learn to recognize when your low blood sugar feeling comes and goes. When it goes away, stop eating at once!

**Rule#5.** Do not drink while you are eating. This operation can work only if you eat solid food. If you drink at mealtimes, the food you have eaten becomes liquid. Then the effectiveness of the band system is greatly reduced. You should not drink anything for one to two hours after a meal.

**Rule#6.** Avoid Fibrous Food. Food such as asparagus or cheap cuts of red meat that contains many gristle fibers can block the stoma. That’s because you can’t chew this food well enough to break it down. If you’d like to eat asparagus or other fibrous foods once in a while, you must be sure to cook them well, cut them into very small pieces first and then chew thoroughly.

**Rule#7.** Exercise according to the guidelines. This rule is very important! Since physical exercise consumes energy and burns calories, it is important to successful weight loss. It is exercise that builds the muscle that keeps the weight off. People who diet but don’t exercise regain lost weight. The more weight you lose, the easier exercise will become. Review the slide presentation with the details of your exercise program until you know it by heart. Your needs will change over time, so be sure that you are following the guidelines at all times.

**Exercise**

Establishing a routine for exercise is sometimes the most daunting element for our patients. Many people who have
weight loss surgery have never felt comfortable exercising, due to pain, fatigue, self-consciousness, lack of positive results...but the fact is that now that you have had surgery, exercise is not only essential to protect your muscles from getting broken down, but it becomes a lot more fun! The pain in the joints disintegrates, energy skyrockets, the scale shows progress every week (our patients are the ones who see results faster than everyone else in the gym!) so self-confidence gets a real boost and suddenly people feel down and fatigued if they DON’T exercise.

It is important to combine aerobic type exercise (that is anything that gets your heart rate up to about 20 beats in 10 seconds) with resistance training (lifting weights). The details are in the slide presentation.

Aerobic exercise burns more fat while you’re doing the exercise, but resistance training increases your metabolism more overall, both while you are doing the aerobic part and for hours after you have stopped exercising. In plain terms, lifting light weights in addition to your aerobic workout makes you burn more calories during your aerobic workout and it keeps your body burning calories long after you have stopped exercising.

Those who have a balanced exercise routine tend to do better in the long run than those who do just aerobic workouts.

Some patients do really well with the help of a personal trainer. Getting a personal trainer, even on a temporary basis while you are losing weight, will provide an environment in which you can be safe and productive. Try it for just a few months and then see what you think!

Trainers who are physical therapists as well have an understanding of how to exercise around prior injuries and painful joints, while at the same time strengthening weak
areas. They also have a keen ability to find the little muscles that we often neglect if left to our own devices, like the back (which sometimes starts to hurt after weight loss if it hasn’t stayed in shape during weight loss) and the triceps (the area between the shoulder and elbow that sags down when you raise your arm).

Many patients have said that second to the surgery itself, getting a personal trainer was the best thing they could have done with their money. Trainers make exercise safe, more effective and more fun, and they keep us accountable! Many trainers will even come to your home if you don’t have a gym near your house.

If cost is an issue, many at-home trainers will design a home program for you, check in with you by email, and visit you only once per month, adapting your programs for your needs and desired results as time goes by. This is much less expensive and is a better option for most people than going it alone.

Exercise increases overall energy, reduces stress, improves sleep, fights hunger, and elevates mood.

**Medications**

The general rule is that you are cleared to take virtually all medications except for NSAIDS (anti-inflammatory like Motrin or Advil), but you must be careful of the size of all medication. Medications might need to be ground into a powder or small pieces. This is particularly important right after a band fill.
**Vitamin and Mineral Supplements**

Multivitamin and mineral supplementation is desirable for all weight loss surgery patients. Again, be sure you pay attention to the size of what you’re swallowing!

You may choose either:

- Chewable or Liquid multivitamin (Centrum) AND
- a separate liquid B-Complex
- OR
- Vita-Band by Bariatric Advantage

**Lap-Band Adjustments**

With the Gastric Banding System, the band can be adjusted to meet your specific needs. That is one of its most attractive aspects. This feature allows you and Dr. Ellner to find the right level of restriction. When first placing the band, Dr. Ellner will leave the band empty or only partially inflated. This lets you get acquainted with the band during the first few weeks after surgery. It also allows healing to occur around the new band site.

These first few weeks are a critical time. You must avoid vomiting. You also need to avoid putting pressure on your new small stomach above the band. The first time the band is adjusted is 4 weeks after your surgery. The exact time will vary. You and Dr. Ellner will decide when the right time is for your band adjustment. To determine how ready you are for a band adjustment, Dr. Ellner will consider:

1. Your weight loss
2. How long after meal before you get hungry
3. Your exercise routine
4. How much fluid is already in your band

5. What type of food you are eating

The use of MEAT protein is extremely important here. Not all proteins are the same. Soft proteins from cottage cheese, yogurt, and refried beans; although important during your soft-food transition phase; will not keep you satisfied long enough. The determination of whether you need an adjustment requires that your protein source is meat-based. For instance, the ability to eat 10 ounces of cottage cheese does NOT mean that you need an adjustment. Soft proteins will slide through even the tightest adjusted bands.

Being able to adjust the band gives you and Dr. Ellner control. If the band is too tight, she can “loosen” it by taking out some of the fluid. If the band is too loose, she can tighten it. Dr. Ellner does this by injecting saline into the self-sealing access port. This port is located just under your skin. The band can also be adjusted by removing saline from the port. This is done with a special fine needle. You may feel a pricking sensation when this is done. The feeling is similar to when you give blood. Adjustments are done either in the hospital or in the office. We may have to use fluoroscopy to assist in locating the access port, or to guide the needle into the port and view inserting the needle. It may also be used after the band has been adjusted to evaluate your pouch size and stoma size.

To get the best results, you will likely need several adjustments. Each one will range from 0.5cc to 2cc. The exact amount of fluid required to make the stoma the right size is unique for each person. An ideal “fill” should be just tight enough to let you gradually loose weight. That means you should still be able to eat enough to get the nutrients that you need while still reducing the overall amount you can eat.
The Gastric Banding System is meant to offer you a way to obtain steady and safe weight loss. Don’t be in a hurry to have an adjustment before you’re ready. To work, the band needs your participation and cooperation. Your success will depend on you and on your partnership with Dr. Ellner, and your full compliance with the program.

**Support Group Meetings**

Information obtained through regular attendance at support group meetings will help you with post-operative adjustments. Patients who attend support group meetings on a regular basis seem to lose weight more successfully than those who do not. No better opportunity exists to discuss the surgical experience with other patients than at the support group meetings, and the multi-disciplinary educational format offers a variety of topics to guide you toward healthy lifestyle. Check the Calendar of Events on [www.ellnerbariatric.com](http://www.ellnerbariatric.com) and attend monthly meetings.

**Keeping in Touch**

Even years after surgery we need to keep in contact with you on a regular, annual basis. Important blood testing needs to be performed on a yearly basis, and your regular doctor will not know what to order, or how to manage your care based on the results. By maintaining contact we can offer you the latest information in the treatment of obesity as well as counsel you in using your surgery to the greatest benefit. If you move out of the area and cannot return to Dr. Ellner’s office for visits, you MUST locate another bariatric surgeon to manage your care. This is for your health and safety.
When to call the office: 619-286-7866

- Fever above 101.5 or shaking chills
- Swelling, redness or pain in one or both of your legs
- Sudden shortness of breath or chest pain
- Nausea or vomiting
- Severe pain in your belly
- Pain, swelling or fluid leaking from your cuts

We are always available to answer questions, address your concerns, and provide additional information.

Congratulations on your new surgery!

Dr. Ellner and Staff