

### **What is vein ligation and stripping?**

Vein ligation and stripping is a minor surgery. It is used to remove one or more varicose veins. These are twisted, swollen veins near the surface of the skin. They are most common in the legs and ankles. The surgery can also be done to prevent venous skin ulcers from coming back after treatment.

You will probably be asleep during the surgery, but it also can be done while you are awake. If you are awake, you will get medicine to numb your leg and prevent pain. The doctor make small cuts in the area and then ties off (ligation) and removes the vein (stripping).

After surgery, problems caused by the varicose veins should go away. Other veins in the legs will take over the work of the veins that are removed.

### **How do you prepare for surgery?**

Surgery can be stressful. This information will help you understand what you can expect. And it will help you safely prepare for surgery.



#### **Preparing for surgery**

- For several days before surgery, do not shave the skin on the leg that will be operated on. The skin could get irritated, which could lead to infection.
- Be sure you have someone to take you home. Anesthesia and pain medicine will make it unsafe for you to drive or get home on your own.
- Understand exactly what surgery is planned, along with the risks, benefits, and other options.
- Tell your doctor ALL the medicines and natural health products you take. Some may increase the risk of problems during your surgery. Your doctor will tell you if you should stop taking any of them before the surgery and how soon to do it.
- If you take aspirin or some other blood thinner, ask your doctor if you should stop taking it before your surgery. Make sure that you understand exactly what your doctor wants you to do. These medicines increase the risk of bleeding.
- Make sure your doctor and the hospital have a copy of your advance care plan. If you don't have one, you may want to prepare one. It lets others know your health care wishes. It's a good thing to have before any type of surgery or procedure.

- **Plan a ride home.** Ask a family member or friend to bring you home after your hospital visit and stay with you for 24 hours.
- **Plan for meals.** Good nutrition is important for your recovery, but cooking may be harder to do right after you get home. Prepare and freeze meals before your surgery or ask friends and family to help you cook or shop for groceries.
- **Get help with chores.** After you get home you may need help. For a short time after your surgery, you may be told to avoid certain physical activities. Plan ahead and arrange to have some help with chores after your surgery.
- **Buy gum or hard candies.** Chewing gum and sucking on hard candies may help get your bowels moving after surgery.

#### **Be as healthy as possible**

- **Be active.** Being active before surgery will make it easier for you to be active after surgery. If you're normally active, keep doing your regular activities up to the day of your surgery. If you aren't used to exercising, start slowly. You can start by going for 15 minute walks.
- **Eat healthy.** Eating healthy foods will give your body the nutrients it needs to prepare for and handle the surgery. Eat healthy foods and drink enough fluids in the weeks before your surgery. Your healthcare team will tell you how long before surgery that you need to stop eating and drinking.
- **Manage your medical conditions.** If you have other medical conditions, such as anemia or high or low blood sugar, ask your healthcare team what you need to do to prepare for surgery.
- **Quit tobacco.** You can heal faster and prevent lung problems after surgery if you quit tobacco. Aim to quit smoking and using tobacco and tobacco-like products at least 4 weeks before surgery. Talk to your healthcare team about ways to quit or cut back.
- **Don't drink alcohol 24 hours before surgery.** Alcohol, cannabis, and other drugs may interact with medicines you take before and after surgery. Talk to your healthcare team if you need help stopping or cutting back on alcohol, cannabis, or other drugs.

#### **Do the following before your surgery to help you feel better sooner and recover faster.**

##### **The day before surgery**

- Know the time of your surgery, when you need to be at the hospital, and where you need to go when you get there.
- Follow any instructions the healthcare team or your surgeon gave you for your medicines (including herbal or complementary medicines).
- Don't drink alcohol 24 hours before your surgery.



- **Stop eating at midnight.** This is very important!



- Stop eating and drinking all non-clear fluids at midnight. This is very important
- You may DRINK CLEAR FLUIDS ONLY up to 3 hours before surgery. This includes BLACK coffee, tea, Gatorade, apple juice and water.

### **Morning of surgery**

Plan to arrive at the hospital on time.

- Follow any instructions provided
- Bring all of the things you packed for your hospital stay **if** you are being admitted.
- Follow **all** other instructions the healthcare team gave you to prepare for surgery.
- Bring your CPAP if you use one



### **What happens on the day of surgery?**

Follow the instructions exactly about when to stop eating and drinking. If you don't, your surgery may be cancelled. If your doctor told you to take your medicines on the day of surgery, take them with only a sip of water.

- Take a bath or shower before you come in for your surgery. Do not apply lotions, perfumes, deodorants, or nail polish.
- Do not shave the surgical site yourself.
- Take off all jewellery and piercings. And take out contact lenses, if you wear them.

### **At the hospital**



Bring a picture ID health card

- The area for surgery is often marked to make sure there are no errors.
- You will be kept comfortable and safe by your anesthesia provider.
- **When should you call your doctor?**
  - You have questions or concerns.
  - You don't understand how to prepare for your surgery.
  - You become ill before the surgery (such as fever, flu, or a cold).

- You need to reschedule or have changed your mind about having the surgery.

## Vein Ligation and Stripping: What to Expect at Home

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- **Discharge**

### **How you may feel after your operation**

- You may feel nauseated, light headed dizzy or sleepy for up to 24 hours after your surgery
- You may have a slight temperature for 2 days
- You may feel tired for a few days after your surgery

**For 24 hours after your surgery do not....**

- Drive a vehicle
- Operate heavy equipment
- Drink alcohol or smoke
- Make any important or legal decisions

### **Your Recovery**

You will have some pain from the cuts (incisions) the doctor made. Your leg may feel stiff or sore for the first 1 to 2 weeks. Your doctor will give you pain medicine for this. You can expect your leg to be very bruised at first. This is a normal part of recovery and may last 2 to 3 weeks. You may need to wear tight bandages, called compression dressings, on your leg for the first few days after surgery. This can help reduce bruising.

If you have stitches, they may dissolve on their own. Or your doctor may take them out 7 to 14 days after your surgery.

You will need to take it easy at home for 3 to 7 days after the surgery. How long it takes for you to recover depends on how many veins were removed.

After surgery, problems caused by the varicose veins may go away. Removing varicose veins usually doesn't cause circulation problems. That's because other veins in the legs will take over the work of the veins that were removed.

This care sheet gives you a general idea about how long it will take for you to recover. But each person recovers at a different pace. Follow the steps below to get better as quickly as possible.

### **How can you care for yourself at home?**



#### **Activity**

- Rest when you feel tired. Getting enough sleep will help you recover.
- Follow your doctor's instructions about activity. Your doctor may recommend that you rest in bed or limit your activity for several days after surgery. This can help reduce bruising.
- Resume activity as your doctor tells you. Start by walking a little more than you did the day before. Bit by bit, increase the amount you walk. Walking boosts blood flow.
- Avoid strenuous activities, such as bicycle riding, jogging, weight lifting, or aerobic exercise, for 2 weeks or until your doctor says it is okay. If you do strenuous activities too soon after the surgery, you may have some bleeding from your incisions. If this happens, lie down with your leg propped up on pillows. If the bleeding does not stop, call your doctor



### **Diet**

- Start off with light food such as soup, toast and tea. Avoid dairy and fatty foods as it may upset your stomach.
- Drink plenty of fluids
- You may notice that your bowel movements are not regular right after your surgery. This is common. You may want to take a fibre supplement every day. If you have not had a bowel movement after a couple of days, ask your doctor about taking a mild laxative.



### **Medicines**

- Your doctor will tell you if and when you can restart your medicines. He or she will also give you instructions about taking any new medicines.
- If you take aspirin or some other blood thinner, ask your doctor if and when to start taking it again. Make sure that you understand exactly what your doctor wants you to do.
- Be safe with medicines. Take your medicines exactly as prescribed. Call your doctor if you think you are having a problem with your medicine.
- If your doctor prescribed antibiotics, take them as directed. Do not stop taking them just because you feel better. You need to take the full course of antibiotics.
- Your doctor may prescribe a blood thinner when you go home. This helps prevent blood clots. Be sure you get instructions about how to take your medicine safely. Blood thinners can cause serious bleeding problems.



## Incision care

- If you have compression dressings on your leg, follow your doctor's instructions about when to take them off.
- If you have strips of tape on the incisions, leave the tape on for a week or until it falls off.
- After your doctor says it is okay to take off the compression dressings, wash the area daily with warm, soapy water and pat it dry. Don't use hydrogen peroxide or alcohol, which can slow healing. You may cover the area with a gauze bandage if it weeps or rubs against clothing. Change the bandage every day.
- Keep the area clean and dry.



## Ice and elevation

- To reduce pain, put ice or a cold pack on your leg for 10 to 20 minutes at a time. Do this every few hours. Put a thin cloth between the ice and your skin.
- Prop up your leg on a pillow when you ice it or anytime you sit or lie down during the 2 to 3 days after surgery. Try to keep it above the level of your heart. This will help reduce bruising.

**Follow-up care is a key part of your treatment and safety.** Be sure to make and go to all appointments, and call your doctor if you are having problems. It's also a good idea to know your test results and keep a list of the medicines you take.

## At Home

- Eat healthy and drink fluids as you did before surgery (unless your healthcare team gives you other instructions).
- Drink oral nutritional supplements (like Ensure Protein Max) for the first month after surgery to give you extra protein and help you heal faster.
- Take less pain medicine as your pain gets better.
- Take your blood thinner and other medicines as you were told.

## What is anesthesia?

Anesthesia controls pain. And it keeps all your organs working normally during surgery or another kind of procedure.

Anesthesia can relax you. It can also make you sleepy or forgetful. Or it may make you unconscious. It depends on what kind you get.

Your anesthesia provider (anesthesiologist) will make sure you are comfortable and safe during the procedure or surgery.

There are different types of anesthesia.

- **Local anesthesia.** This type numbs a small part of the body. Doctors use it for simple procedures.
  - You get a shot in the area the doctor will work on.
  - You will feel some pressure during the procedure.
  - You may stay awake. Or you may get medicine to help you relax or sleep.
- **Regional anesthesia.** This type blocks pain to a larger area of the body. It can also help relieve pain right after surgery. And it may reduce your need for other pain medicine after surgery. There are different types. They include:
  - Peripheral nerve block. This is a shot near a specific nerve or group of nerves. It blocks pain in the part of the body supplied by the nerve. This is often used for procedures on the hands, arms, feet, legs, or face.
  - Epidural and spinal anesthesia. This is a shot near the spinal cord and the nerves around it. It blocks pain from an entire area of the body, such as the belly, hips, or legs.
- **General anesthesia.** This type affects the brain and the whole body. You may get it through a small tube placed in a vein (IV). You are unconscious and will not feel pain. During the surgery, you will be comfortable. Later, you will not remember much about the surgery.

What type will you have?

The type of anesthesia you have depends on many things, such as:

- The type of surgery or procedure and the reason you are having it.
- Test results, such as blood tests.
- How worried you feel about the surgery.
- Your health. Your doctor and nurses will ask you about any past surgeries. They will ask about any health problems you may have, such as diabetes, lung or heart disease, or a history of stroke. They will want to know if you take medicine, such as blood thinners. Your doctor may also ask if any family members have had any problems with anesthesia. You will talk with your anesthesia provider about your options. In many cases, you may be able to choose the type of anesthesia you have.

What can you expect after having anesthesia?

Right after the surgery, you will be in the recovery room. Nurses will make sure you are comfortable. As the anesthesia wears off, you may feel some pain and discomfort from your surgery.

Tell someone if you have pain. Pain medicine works better if you take it before the pain gets bad.

You may feel some of the effects of anesthesia for a while. It takes time for the effects of the medicine to completely wear off.

- If you had local or regional anesthesia you may feel numb and have less feeling in part of your body. It may also take a few hours for you to be able to move and control your muscles as usual.
- When you first wake up from general anesthesia, you may be confused. Or it may be hard to think clearly. This is normal.
- Don't do anything for 24 hours that requires attention to detail. This includes going to work, making important decisions, or signing any legal documents.

Other common side effects of anesthesia include:

- Nausea and vomiting. This does not usually last long. It can be treated with medicine.
- A slight drop in body temperature. You may feel cold and shiver when you first wake up.
- A sore throat, if you had general anesthesia.
- Muscle aches or weakness.
- Feeling tired.

You may go home the same day of surgery or you may stay in the hospital. Your doctor will check on your recovery from the anesthesia. He or she will answer any questions you may have.

For answers to frequently asked questions about your anesthetic, please visit <https://www.cas.ca/en/about-cas/advocacy/anesthesia-faq>

### **When should you call for help?**



**Call 911** anytime you think you may need emergency care. For example, call if:

- You passed out (lost consciousness).
- You have severe trouble breathing.
- You have sudden chest pain and shortness of breath

**Call your doctor** or seek immediate medical care if:



- You have severe pain in your leg, or it becomes cold, pale, blue, tingly, or numb.
- You have pain that does not get better after you take pain pills.
- You have loose stitches, or your incisions come open.
- You are bleeding a lot from the incisions.
- You have signs of infection, such as:
  - Increased pain, swelling, warmth, or redness.
  - Red streaks leading from your incisions.
  - Pus draining from your incisions.
  - A fever.