About Your Implanted Port

This information explains implanted ports, port placement, and how to care for your port. An implanted port is often called a mediport or port-a-cath. A port protects your veins during cancer treatment.

What is an implanted port?

An implanted port is a type of central venous catheter (CVC). A CVC is a flexible tube that’s put into one of your veins.

You may need to get medication in a vein larger than the ones in your arms. Your port lets the medication go into your bloodstream through your vein. It can be used to give you medication for several days in a row.

A port protects your veins from damage from repeated access. A port makes it easier for your care team to:

- Collect blood samples.
- Give you intravenous (IV) medication. This is medication that’s put into one of your veins. Some IV medications, such as anesthesia and some types of
chemotherapy (chemo), must go through a large vein.

- Give you IV fluids.
- Give you IV blood products, such as platelets and plasma.
- Give you IV contrast. This is a special dye that helps your healthcare provider see your organs better.

Your healthcare provider will tell you if getting a port is best for you and your treatment.

A surgeon or interventional radiologist (also called an IR doctor) will place your port. An IR doctor is a doctor who is a specialist in image-guided procedures. They usually will place your port in your chest. A port sometimes can go into your upper arm instead. Your healthcare provider will talk with you about where your port will be placed.

Ports placed in the chest usually are about 1 inch (2.5 centimeters) below the center of your right collarbone (see Figure 1). This allows for the most direct access to your vein. If you wear a bra, your port will be about 1 inch from where your bra strap lies.
Your port may raise your skin about ½ an inch (1.2 centimeters). You may be able to feel it through your skin. Most people will not be able to tell that you have a port. Your port will not set off metal detectors.

Your port can stay in place for years. Your healthcare provider will remove your port when you don’t need it anymore. They also will remove it if it gets infected. You can have another port put in later, if you need one.

**Parts of your implanted port**
The parts of the implanted port are the port, septum, and catheter (see Figure 2).

**Port and septum**
The port is the starting point for fluids to flow through the catheter. It sits under your skin and has a raised center called a septum. This is the part of the port where needles will be placed. It’s also called the access
point.

The septum is made from a self-sealing rubber material. Nothing can enter the port without a needle in it. The septum closes once the needle is removed.

**Catheter**

The catheter is a thin, flexible plastic tube. One end is connected to your port. The other end sits in your vein.

![Figure 2. Parts of your port](image)

**Types of implanted ports**

Ports can be shaped like a circle, oval, or triangle. Your port may be a Mediport®, BardPort®, PowerPort®, or Port-A-Cath®. They can be a single lumen port or a double lumen port (see figure 3). Your healthcare provider will choose the one that’s best for you and your treatments.
**Single lumen port**
A single lumen port has 1 access point. Most people get a single lumen port.

**Double lumen port**
A double lumen port has 2 access points. You can put a needle in each access point. You may get a double lumen port if you usually need more than 1 point of access for treatment.

**Power-injectable ports**
Most implanted ports are made to be used during imaging tests. These include computed tomography (CT) scans or magnetic resonance imaging (MRI). These ports let you have high speed injections (shots) of contrast. These are called power-injectable ports (see...
Your healthcare provider will tell you if you have a power-injectable port. They will also give you a wallet card with information about your port. Carry this card with you at all times.

What to do before your implanted port placement surgery

About 1 week before your surgery, you will meet with the surgery team for a pre-surgical visit. During this visit, they will teach you more about your new port and how to care for it. You should also have a family member or friend learn with you.
Ask about your medications

You may need to stop taking some of your medications before your surgery, including:

- Vitamin E.
- Aspirin.
- Anticoagulants (blood thinners)
- Insulin, or other medications for diabetes.

Talk with your doctor about which medications are safe for you to stop taking.

If you’re taking any other medications, ask the doctor who prescribed the medications if you should stop taking them before your surgery.

If you take any medications in the morning, talk with your doctor about which medications you should take before your surgery. Your doctor may tell you to wait until after your surgery to take some of your medications.

Note the time of your surgery

A staff member will call you between 2 p.m. and 4 p.m. the day before your surgery. If your surgery is scheduled for a Monday, they will call you on the Friday before. If you don’t get a call by 4 p.m., call 212-639-5948.
The staff member will tell you what time to arrive at the hospital for your surgery. They will also remind you where to go.

**How to get ready for your implanted port placement surgery**

Your port placement surgery will take place in the operating room. Your healthcare provider will tell you how to get ready.

**Take devices off your skin**

You may wear certain devices on your skin. Before your surgery, device makers recommend you take off your:

- Continuous glucose monitor (CGM)
- Insulin pump

Talk with your healthcare provider about scheduling your appointment closer to the date you need to change your device. Make sure you have an extra device with you to put on after your surgery.

You may not be sure how to manage your glucose while your device is off. If so, before your appointment, talk with the healthcare provider who manages your diabetes care.
Arrange for someone to take you home
You must have a responsible care partner take you home after your surgery. A responsible care partner is someone who can help you get home safely. They should be able to contact your care team if they have any concerns. Make sure to plan this before the day of your surgery.

If you don’t have a responsible care partner to take you home, call one of the agencies below. They’ll send someone to go home with you. There’s a charge for this service, and you’ll need to provide transportation. It’s OK to use a taxi or car service, but you still need a responsible care partner with you.

Agencies in New York
VNS Health: 888-735-8913
Caring People: 877-227-4649

Agencies in New Jersey
Caring People: 877-227-4649

What to do the day before your port placement surgery
Shower with a 4% CHG solution antiseptic skin cleanser (such as Hibiclens)

The night before your surgery, shower with a 4% CHG solution antiseptic skin cleanser. An antiseptic kills germs that can cause disease.

1. Wash your hair with your usual shampoo and conditioner. Rinse your head well.
2. Wash your face and genital (groin) area with your usual soap. Rinse your body well with warm water.
3. Open the 4% CHG solution bottle. Pour some into your hand or a clean washcloth.
4. Move away from the shower stream. Rub the 4% CHG solution gently over your body from your neck to your feet. Do not put it on your face, scalp, or genital area.
5. Move back into the shower stream to rinse off the 4% CHG solution. Use warm water.
6. Dry yourself off with a clean towel.

Do not use any lotion, cream, deodorant, makeup, powder, perfume, or cologne after your shower.

Instructions for eating before your surgery
Do not eat anything after midnight the night before your surgery. This includes hard candy and gum.

What to do the day of your port placement surgery

Instructions for drinking before your surgery
You can drink a total of 12 ounces of water between midnight and 2 hours before your scheduled arrival time. Do not drink anything else.

Do not drink anything starting 2 hours before your scheduled arrival time. This includes water.

Instructions for medications
Take only the medications your doctor tells you to take the morning of your surgery. Take them with a small sip of water.
Things to remember

- Don’t put on any lotion, cream, powder, deodorant, makeup, powder, perfume, or cologne.
- If you wear contact lenses, wear your glasses instead. Wearing contact lenses during your surgery can damage your eyes.
- Don’t wear any metal objects. Remove all jewelry, including body piercings. The equipment used during your surgery can cause burns if it touches metal.
- Leave valuable items (such as credit cards and jewelry) at home.
- You will need to remove certain items before you go into the operating room. This includes hearing aids, dentures, prosthetic device(s), wig, and religious articles.

What to bring

- A case for your glasses, if you wear them.
- Loose, comfortable clothes to wear after your surgery.
- A small pillow or towel, if you’re traveling home in a car. You can use this to protect your incision (surgical cut) from the seatbelt.
- Your Health Care Proxy form and other advanced directives, if you completed them.
• Your medication, if you take any.

**Where to park**

MSK’s parking garage is on East 66th Street between York and 1st avenues. If you have questions about prices, call 212-639-2338.

To reach the garage, turn onto East 66th Street from York Avenue. The garage is about a quarter of a block in from York Avenue. It’s on the right (north) side of the street. There’s a tunnel you can walk through that connects the garage to the hospital.

There are other parking garages located on:

• East 69th Street between 1st and 2nd avenues.
• East 67th Street between York and 1st avenues.
• East 65th Street between 1st and 2nd avenues.

**What to expect when you arrive**

Many staff members will ask you to say and spell your name and birth date. This is for your safety. People with the same or similar names may be having a surgery on the same day.

You will fill out a brief questionnaire if you have not already done so through MyMSK, the patient portal.

You will get sedation (medicine to help you feel calm)
through a catheter. The catheter may be an IV in your arm or hand. It may also be a CVC, such as a peripherally inserted central catheter (PICC), if you already have one. A member of your care team will go over this with you before your surgery.

A staff member will bring you to the surgery room when it’s time to place your port.

**Meet with a nurse**

You’ll meet with a nurse before surgery. Tell them the dose of any medications you took after midnight and the time you took them. Make sure to include prescription and over-the-counter medications, patches, and creams.

Your nurse may place an intravenous (IV) line in one of your veins, usually in your arm or hand. If your nurse does not place the IV, your anesthesiologist will do it in the operating room.

**Meet with an anesthesiologist**

You’ll also meet with an anesthesiologist before surgery. They will:

- Review your medical history with you.
- Ask you if you’ve had any problems with anesthesia in the past, including nausea or pain.
- Talk with you about your comfort and safety during
your surgery.

- Talk with you about the kind of anesthesia you’ll get.
- Answer your questions about your anesthesia.

**Inside the operating room**

Once you’re in the operating room, your healthcare provider will inject (give you a shot) of local anesthesia. Local anesthesia is medication to numb an area of your body. Your healthcare provider will inject the anesthesia into your neck and chest.

You may also need general anesthesia to have your port placed. General anesthesia is medicine to make you sleep during your surgery.

Your doctor will make a small incision (surgical cut) at the base of your neck (see Figure 5). It will be about 1 to 1.5 inches (2.5 to 4 centimeters) long. They will make a second small incision of about 0.5 inches (1 centimeter) long on your chest, under your collarbone. Then, they will make a pocket under your skin. This will hold your port in place.
Your healthcare provider will place the catheter through the second incision and connect it to your vein.

Your care team will use sutures (stitches) or surgical glue called Dermabond® to close your incisions. If you have sutures, they will be absorbed into your body. You will not need to have them removed. They may also use Steri-Strips™. These are short, thin strips of surgical tape that are stronger than a regular bandage.

Your surgery should take about 1 hour.

What to do after your port placement surgery

In the Post-Anesthesia Care Unit (PACU)

When you wake up after your surgery, you’ll be in the PACU. A nurse will be keeping track of your
temperature, pulse, blood pressure, and oxygen levels. You may get oxygen through a tube resting below your nose or a mask covering your nose and mouth. You may also have compression boots on your lower legs. These gently inflate and deflate to help blood flow in your legs.

Tell your nurse if you’re feeling pain. They may give you medication for your pain.

Ask your nurse how long you can expect to stay in the PACU. Your care team will tell you when it’s safe to go home. You will need a responsible care partner to go with you.

Your nurse will take out your IV before you leave the hospital. They will explain how to change the dressing and care for yourself at home.

**How to care for your incision site**

You will have a bandage covering the small incision on your chest. You can take this bandage off 48 hours (2 days) after your surgery.

You may feel soreness or pain at your incision sites and where the catheter was tunneled under your skin. This should get better in 1 to 2 days. You can take over-the-counter pain medication (medication you get without a prescription) if you need it. You may also notice some
bruising.

Wearing a seatbelt may put pressure on your incisions. You can put a small pillow or folded towel between the strap and your body to help with this.

**Incisions closed with sutures**

If your incisions were closed with sutures:

- You will have 2 small bandages covering your incision.
- Leave your bandages in place for 48 hours, or as long as your healthcare provider tells you to.
- Do not get your bandages wet. You can shower once your bandages are removed.

**Incisions closed with dermabond**

If your incisions were closed with sutures:

- You may have small pieces of tape or bandages covering the incisions.
- Do not apply lotion or place adhesive on top of the tape or bandage.
- Do not pick or scratch the Dermabond. It will come off on its own after about 7 to 10 days.
- Your care team will give you instructions for how to shower safely until your incisions heal.
The skin over your port doesn’t need any special care. You can wash it as you normally would. If your care team used Steri-Strips, these will fall off on their own in 7 to 10 days.

Your port will not set off metal detectors.

**Bathing and showering**

- For the first 24 hours after your surgery, keep your bandage dry. You can take a sponge bath as long as your bandage doesn’t get wet.
- You can take a shower 48 hours (2 days) after your surgery. Don’t soak in a bathtub or pool. You can start taking baths 1 to 2 weeks after your surgery. Your doctor will tell you when this is safe. You can go completely underwater in a bathtub or pool as long as your port isn’t accessed.
- If your port is accessed while you’re home:
  - Cover the clear dressing over the port with a waterproof dressing (such as Aquaguard®). Your nurse can give you instructions for how to use it.
  - Shower with Hibiclens every day to protect against infection. Follow the steps from the “Shower with a 4% CHG solution antiseptic skin cleanser” section of this resource.
When washing, be gentle with your skin around the port site. You can wash gently with soap, but don’t use a washcloth or brush. Rinse your skin well and pat it dry with a soft towel.

- You can start using a washcloth during bathing and showering 2 weeks after your surgery. Avoid scrubbing the area until it’s completely healed. This is usually about 6 weeks after your surgery.

**Physical activity after your surgery**

Your healthcare provider will give you instructions on what exercises and movements you can do while your incisions are healing. Check with your healthcare provider before starting any exercises, such as:

- Running.
- Stretching.
- Lifting anything over 10 pounds (4.5 kilograms).
- Contact sports, such as football.

**Accessing your implanted port**

Your healthcare provider will access your port when you need IV fluids or medication. They will do this by placing a needle through the access point (see Figure 6). The fluid or medication will move from your port through the
catheter and into your bloodstream.

Only healthcare providers trained in port care should access your port.

Your care team may need to access your port the day it’s placed. If they do, they will insert an access needle into the septum when your port is placed.

The needle and port will be covered by a special bandage (dressing) while your port is accessed (see Figure 7). The dressing will help to keep the needle in place. There also can be a small bandage over the top incision. You don’t need a bandage over your port when it’s not being used.
Flushing your implanted port
Your port flushes on its own while it’s being used. When it’s not being used, your port will need to be flushed at least every 12 weeks. Depending on when your appointments are, a nurse may flush your port more often. To do this, they will put a needle into your port. They will inject saline (sterile salt water) into your catheter. This is done to make sure the catheter does not get blocked. Your catheter may not work if it is blocked. If this happens, you may need to have your port removed.

Removing your port
Your healthcare provider may remove your port when you no longer need it, or if it gets infected. Talk to your
healthcare provider for more information about removing your port.

**When to call your healthcare provider**

- If you have new or increased pain at the site of your port.
- If you have swelling or a growing bruise at the site of your port.
- If you have pus or fluid coming from your incision(s).
- If you notice your incision(s) are hot, tender, red, irritated, or opening.
- If you have a fever of 100.4° F (38° C) or higher.
- If you have chills.

**Contact information**

If you have any questions, contact a member of your care team directly. If you’re a patient at MSK and you need to reach a provider after 5 p.m., during the weekend, or on a holiday, call 212-639-2000. Ask for the interventional radiology fellow on call.
For more resources, visit www.mskcc.org/pe to search our virtual library.

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