



## PATIENT & CAREGIVER EDUCATION

# About Mediastinal Staging

This information explains why staging the mediastinal (MEE-dee-uh-STY-nul) lymph nodes is an important part of your lung cancer treatment.

## About your mediastinum

The area in the middle of your chest between your lungs is called your mediastinum (see Figure 1). Your mediastinum is made up of:

- Your heart.
- Your trachea (windpipe).
- Your esophagus (food pipe).
- Lymph nodes (small, bean-shaped glands that help fight infection and cancer).

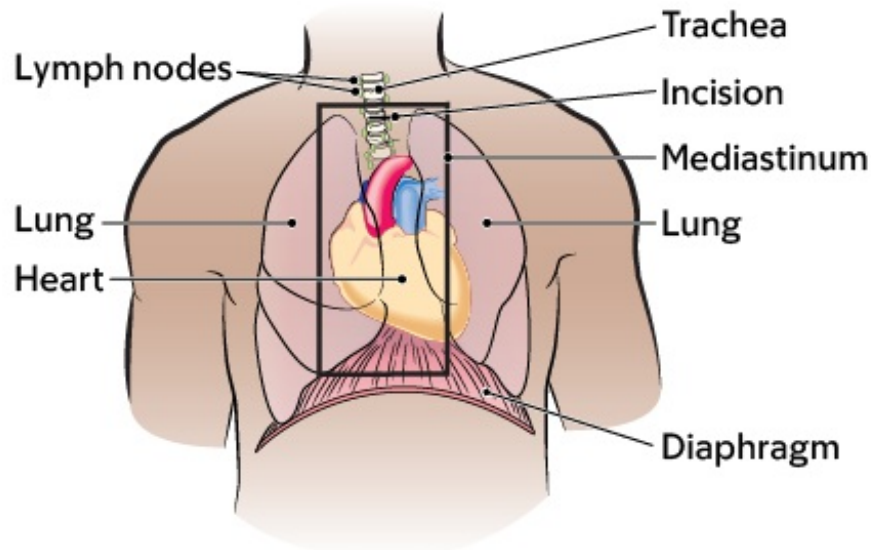


Figure 1. Your mediastinum

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## About staging mediastinal lymph nodes

Staging is part of the diagnosis process. It tells us how advanced a cancer is. It describes the tumor's size, location, and how far it has spread. Staging helps your care team choose the best treatment and follow-up care for you.

It is common for lung cancer to spread to the lymph nodes in your chest (see figure 2). Your healthcare provider will use these imaging tests to examine your chest:

- *Computed Tomography (CT) Scan*  
([www.mskcc.org/pe/ct\\_scan](http://www.mskcc.org/pe/ct_scan))
- Positron emission tomography (PET) scan

The images from these tests will help your healthcare provider find any tumors you may have. If there are tumors, the images will show where they're located and their size.

Your doctor will give you a physical exam and review the results of your diagnostic and imaging tests. Then they will decide the stage of the cancer. They may also do a biopsy to find out if the tumors have spread to your lymph nodes. This means they will take a small tissue sample to look at it more closely.

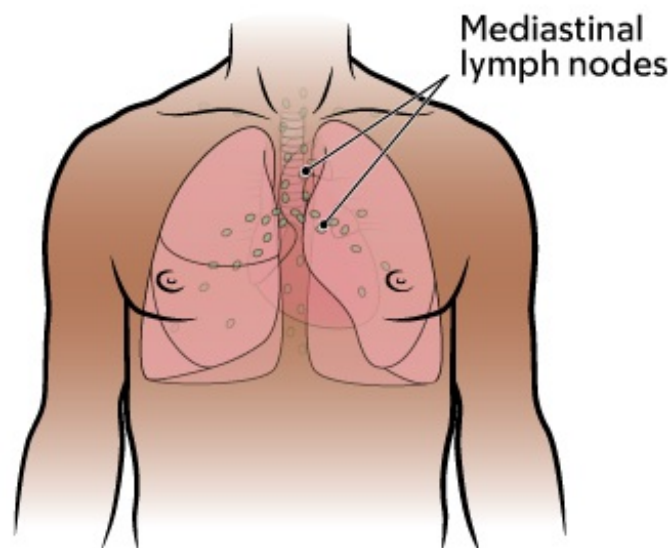


Figure 2. Your mediastinal (chest) lymph nodes

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## **Mediastinal staging procedures**

Your healthcare provider will recommend one of the staging procedures below. Some people need both

procedures. Talk with your healthcare provider about which procedure is right for you.

### **Endobronchial ultrasound (EBUS)**

During EBUS, your healthcare provider will look into your bronchioles (air tubes) using a bronchoscope. A bronchoscope is a thin, flexible tube with a light on the end.

They will put this through your mouth and use it to see the lymph nodes next to your bronchioles. Then, they will pass a needle through the bronchoscope to take tissue samples from your lymph nodes.

### **Mediastinoscopy**

During mediastinoscopy (MEE-dee-uh-sty-NOS-koh-pee), your healthcare provider will make a small (about 1 inch) incision in the front of your lower neck. An incision is a surgical cut.

They will place a mediastinoscope (MEE-dee-uh-STY-noh-skope) into your chest through the incision. A mediastinoscope is a thin, flexible tube with a light and camera on the end. They will use this to examine your chest.

Then, your healthcare provider will get samples of any important areas to check for cancer or other conditions.

They will close your incision with stitches that dissolve over time. They may also put Dermabond<sup>®</sup> (surgical glue), or a Steri-Strip<sup>™</sup> (tape) and a small gauze dressing (bandage) over your incision.

## **Getting ready for your procedure**

### **Ask about your medicine**

You may need to stop taking some of your medicine before your procedure. We've included some common examples below. For instructions about which medicine you can take on the morning of your procedure, talk with your healthcare provider. If you have any questions about your medicine, ask your healthcare provider.

### **Follow your healthcare provider's instructions for taking aspirin**

Aspirin can cause bleeding. If you take aspirin or a medicine that has aspirin, you may need to change your dose or stop taking it 7 days before your procedure. Follow your healthcare provider's instructions. **Do not stop taking aspirin unless they tell you to.**

To learn more, read *How To Check if a Medicine or Supplement Has Aspirin, Other NSAIDs, Vitamin E, or Fish Oil* ([www.mskcc.org/pe/check-med-supplement](http://www.mskcc.org/pe/check-med-supplement)).

## **Stop taking vitamin E, multivitamins, herbal remedies, and other dietary supplements**

Vitamin E, multivitamins, herbal remedies, and other dietary supplements can cause bleeding. Stop taking them 7 days before your procedure. If your healthcare provider gives you other instructions, follow those instead.

To learn more, read *Herbal Remedies and Cancer Treatment* ([www.mskcc.org/pe/herbal\\_remedies](http://www.mskcc.org/pe/herbal_remedies)).

## **Stop taking nonsteroidal anti-inflammatory drugs (NSAIDs)**

NSAIDs, such as ibuprofen (Advil<sup>®</sup> and Motrin<sup>®</sup>) and naproxen (Aleve<sup>®</sup>), can cause bleeding. Stop taking them 2 days before your procedure. If your healthcare provider gives you other instructions, follow those instead.

To learn more, read *How To Check if a Medicine or Supplement Has Aspirin, Other NSAIDs, Vitamin E, or Fish Oil* ([www.mskcc.org/pe/check-med-supplement](http://www.mskcc.org/pe/check-med-supplement)).

If you have pain or discomfort, take acetaminophen (Tylenol<sup>®</sup>). Do not take more acetaminophen than directed on the label or as instructed by your healthcare provider.

## **Follow your healthcare provider's instructions for taking anticoagulants (blood thinners)**

If you take medicine to thin your blood, you'll need to stop taking it before your procedure. When you need to stop taking it depends on the medicine you take.

We've listed some examples of common blood thinners below. There are others, so be sure your care team knows all the medicines you take. **Do not stop taking your blood thinner without talking with a member of your care team.**

- Apixaban (Eliquis<sup>®</sup>)
- Aspirin
- Celecoxib (Celebrex<sup>®</sup>)
- Cilostazol (Pletal<sup>®</sup>)
- Clopidogrel (Plavix<sup>®</sup>)
- Dabigatran (Pradaxa<sup>®</sup>)
- Dalteparin (Fragmin<sup>®</sup>)
- Dipyridamole (Persantine<sup>®</sup>)
- Edoxaban (Savaysa<sup>®</sup>)
- Enoxaparin (Lovenox<sup>®</sup>)
- Fondaparinux (Arixtra<sup>®</sup>)
- Meloxicam (Mobic<sup>®</sup>)
- Nonsteroidal anti-inflammatory drugs (NSAIDs), such as ibuprofen (Advil<sup>®</sup>, Motrin<sup>®</sup>) and naproxen (Aleve<sup>®</sup>)
- Pentoxifylline (Trental<sup>®</sup>)
- Prasugrel (Effient<sup>®</sup>)
- Rivaroxaban (Xarelto<sup>®</sup>)
- Sulfasalazine (Azulfidine<sup>®</sup>, Sulfazine<sup>®</sup>)
- Ticagrelor (Brilinta<sup>®</sup>)

- Heparin injection (shot)
- Tinzaparin (Innohep<sup>®</sup>)
- Warfarin (Jantoven<sup>®</sup>, Coumadin<sup>®</sup>)

## **Medicine for diabetes**

If you take insulin or other medicine for diabetes, you may need to change the dose. Talk with your surgeon and the healthcare provider who prescribes your diabetes medicine about what do the morning of your procedure.

## **Get a letter from your cardiologist, if needed**

If you have an automatic implantable cardioverter-defibrillator (AICD), you'll need a clearance letter from your cardiologist before your procedure. A cardiologist is a doctor with special training in the cardiovascular system (heart and blood vessels).

## **Arrange for someone to take you home**

You must have a responsible care partner take you home after your procedure. 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 procedure.

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

### **Presurgical testing (PST)**

You'll have a PST appointment before your procedure. You'll get a reminder from your healthcare provider's office with the appointment date, time, and location.

Visit [www.msk.org/parking](http://www.msk.org/parking) for parking information and directions to all MSK locations.

You can eat and take your usual medicines the day of your PST appointment.

It's helpful to bring these things to your appointment:

- A list of all the medicines you're taking, including prescription and over-the-counter medicines, patches, and creams.
- Results of any medical tests done outside of MSK in

the past year, if you have them. Examples include results from a cardiac stress test, echocardiogram, or carotid doppler study.

- The names and telephone numbers of your healthcare providers.

You'll meet with an advance practice provider (APP) during your PST appointment. They work closely with MSK's anesthesiology (A-nes-THEE-zee-AH-loh-jee) staff. These are doctors with special training in using anesthesia during a procedure.

Your APP will review your medical and surgical history with you. You may have tests to plan your care, such as:

- An electrocardiogram (EKG) to check your heart rhythm.
- A chest X-ray.
- Blood tests.

Your APP may recommend you see other healthcare providers. They'll also talk with you about which medicine(s) to take the morning of your procedure.

# What to do the day before your procedure

## Note the time of your procedure

A staff member will call you after 2 p.m. the day before your procedure. If your procedure is scheduled for a Monday, they'll call you on the Friday before. If you do not get a call by 7 p.m., call 212-639-5014.

The staff member will tell you what time to arrive for your procedure. They'll also remind you where to go.

If you need to cancel your procedure for any reason, please call the healthcare provider who scheduled it for you.

## Instructions for eating



**Stop eating at midnight (12 a.m.) the night before your surgery.** This includes hard candy and gum.

Your healthcare provider may have given you different instructions for when to stop eating. If so, follow their instructions. Some people need to fast (not eat) for longer before their surgery.

# What to do the day of your procedure

## Instructions for drinking

Between midnight (12 a.m.) and 2 hours before your arrival time, only drink the liquids on the list below. Do not eat or drink anything else. Stop drinking 2 hours before your arrival time.

- Water.
- Clear apple juice, clear grape juice, or clear cranberry juice.
- Gatorade or Powerade.
- Black coffee or plain tea. It's OK to add sugar. Do not add anything else.
  - Do not add any amount of any type of milk or creamer. This includes plant-based milks and creamers.
  - Do not add honey.
  - Do not add flavored syrup.

If you have diabetes, pay attention to the amount of sugar in your drinks. It will be easier to control your blood sugar levels if you include sugar-free, low-sugar, or no added sugar versions of these drinks.

It's helpful to stay hydrated before surgery, so drink if

you are thirsty. Do not drink more than you need. You will get intravenous (IV) fluids during your surgery.



**Stop drinking 2 hours before your arrival time.** This includes water.

Your healthcare provider may have given you different instructions for when to stop drinking. If so, follow their instructions.

## **Things to remember**

- Take only the medicine your healthcare provider told you to take the morning of your procedure. Take them with a few sips of water.
- Don't put on any lotion, cream, powder, deodorant, makeup, or perfume.
- Don't wear any metal objects. Remove all jewelry, including body piercings. The equipment used during your procedure can cause burns if it touches metal.
- Leave all valuables, such as credit cards and jewelry, at home.
- If you wear contacts, wear your glasses instead.

## **What to bring with you**

- Medicine for breathing problems (such as inhalers), if you take any.
- Medicine for chest pain, if you take any.
- A case for your personal items, if you have one. This includes glasses or contacts, hearing aid(s), dentures, prosthetic device(s), wig, or religious articles.
- Your Health Care Proxy form and other advance directives, if you have filled them out.

## **Where to go**

Your procedure will be done at one of these locations:

### **The Presurgical Center (PSC) at Memorial Hospital on the 2<sup>nd</sup> floor**

1275 York Avenue (between East 67<sup>th</sup> and East 68<sup>th</sup> Streets)

New York, NY 10065

Take the M elevator to the 2<sup>nd</sup> floor and check in at the desk in the PSC.

### **The Presurgical Center (PSC) at Memorial Hospital on the 6<sup>th</sup> floor**

1275 York Avenue (between East 67<sup>th</sup> and East 68<sup>th</sup> Streets)

New York, NY 10065

Take the B elevator to 6<sup>th</sup> floor and check in at the desk in the PSC.

Visit [www.msk.org/parking](http://www.msk.org/parking) for parking information and directions to all MSK locations.

## **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 procedure on the same day.

When it's time to change, you'll get a hospital gown, robe, surgical head covering, and nonskid socks to wear.

## **Meet with a nurse**

You'll meet with a nurse before your procedure. Tell them the dose of any medicine you took after midnight (12 a.m.) and the time you took them. Make sure to include prescription and over-the-counter medicine, 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.

You'll also meet with your healthcare provider or another member of your surgical team before your

procedure. They'll explain the procedure and answer your questions. They'll also ask you to sign a consent form if you haven't already.

## **Going into the operating room**

You'll either walk into the operating room or a staff member will bring you there on a stretcher. A member of the operating room team will help you onto the operating bed.

## **Inside the operating room**

You'll get anesthesia (medicine to make you sleep) during your procedure. After you're asleep, your care team will place a small tube into your mouth and down your windpipe. This is to help you breathe during your procedure.

Your surgeon will do your procedure and biopsy. They will send the samples from the biopsy to a lab to be studied.

At the end of your procedure, your anesthesiologist will remove the breathing tube.

## **What to do after your mediastinoscopy**



## **In the Post-Anesthesia Care Unit (PACU)**

You'll be in the PACU when you wake up after your procedure. 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 over your nose and mouth. You'll also have compression boots on your lower legs.

Your nurse will also check the dressing around your incision. You'll also have a chest X-ray to make sure your lung isn't collapsed or deflated.

Your caregiver will be able to join you in the PACU, usually about 90 minutes after you arrive there.

Your nurse will bring you something to drink and eat. You'll stay in the PACU until you're fully awake and your healthcare provider has looked at your chest X-ray.

Once you're ready to go home, your nurse will give you discharge instructions. They will also give you any prescriptions your healthcare provider ordered and answer any questions you have.

If your surgeon did a biopsy, your results will be ready 1 to 2 weeks after your procedure. Your healthcare provider will call you with your results or go over them with you during your follow-up appointment.

## **What to expect at home**

After you're discharged, schedule a follow-up appointment 1 to 2 weeks after your procedure. A nurse will call you the day after your procedure to see how you're feeling.

You may have side effects for about 1 to 3 days after your procedure. These may include:

- Temporary tenderness or discomfort at your incision site. If you have pain, you can take acetaminophen (Tylenol) or the pain medicine your healthcare provider prescribed. If you're allergic to acetaminophen, ask your healthcare provider what other medicine you can take.
- Hoarseness or a sore throat from the breathing tube that was used during your procedure. If your throat is sore, eat soft foods for a few days after your procedure. This includes oatmeal, mashed potatoes, and pasta.

## **Caring for your incision**

- Keep the dressing over your incision for 24 hours (1 day). After 24 hours, you can take it off.
- You can shower 24 hours after your procedure. You can let soap and water run over the area. Remember

to leave any glue or Steri-Strips in place until they start to peel at the edges. Once they start peeling, you can take them off.

- Avoid tub baths, swimming pools, and hot tubs for 10 days after your procedure.

You can go back to doing your usual activities as soon as you feel ready.

## **When to call your healthcare provider**

Call your healthcare provider if you:

- Have trouble breathing.
- Lose your voice or it stays hoarse for 3 days or more.
- Have bleeding or redness at the incision site.
- Have a fever of 101 °F (38.3 °C) or higher.

If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit [www.mskcc.org/pe](http://www.mskcc.org/pe) to search our virtual library.

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