

CERVICAL ARTHROPLASTY (Artificial Disc Replacement)

PROCEDURE

A discectomy is the surgical removal of a disc. A disc protrusion or arthritic bone spur is placing pressure on a nerve causing pain in your arm and perhaps neck. For some patients this is a painful problem with no loss of neurologic function. For others it may result in arm weakness and numbness. During this operation, your surgeon uses magnification to visualize the disc. The abnormal cervical disc is removed – this relieves pressure on the nerve. Next, the artificial disc is placed in the disc space.

FUSION VS. ARTIFICIAL DISC

There is significant debate regarding the benefits of artificial disc replacement versus fusion. We will be unable to explain all of the facts regarding this decision in this small handout. Suffice it to say that both surgeries are good options with excellent outcomes in individuals who need the nerve or spinal cord decompressed. There are certain criteria that may cause a surgeon to recommend one option over the other, and you can discuss this with your surgeon. The theoretical advantage of an artificial disc is that it maintains mobility within the disc space, thereby putting less pressure on the adjacent discs.

NON-SURGICAL OPTIONS

Surgery is not always necessary. Although most disc problems are painful, they are usually not dangerous. However, surgery is recommended if you have severe root compression, spinal cord compression, or significant weakness and numbness.

Even though your physician has offered you the option of surgery, the decision is yours. Some alternatives to surgery include the use of anti-inflammatory medications, physical therapy, weight loss, smoking cessation, activity restriction, pain medication, injections, and time for the disc protrusion to heal. Unfortunately, the spinal cord and nerve roots are delicate and once they are damaged, they may not completely recover, even with surgery.

RISKS OF SURGERY

If you have nerve damage resulting in weakness, numbness or tingling in your arms or legs, **the primary purpose of surgery is to relieve pain and prevent further loss of function.** As you and your surgeon discuss this procedure in the office, your condition and any risks for surgery complications will be assessed and fully explained to you.

One risk of surgery is a failure to improve postoperatively, and there is no guarantee that your arm or neck pain will be relieved following surgery.

While complications from surgery are uncommon some can be serious and may include:

- Heart or lung problems from general anesthesia, which could be fatal;
- Bleeding, which could require a transfusion;
- Difficulty swallowing and hoarseness, which could be temporary or permanent;



CERVICAL ARTHROPLASTY (Artificial Disc Replacement)

(Risks of Surgery, continued)

- Infection of the cervical incision, which could require IV antibiotics and another operation;
- Damage to the covering of the nerve, which causes spinal fluid leakage, and which could require a drainage procedure or another operation; although rare, this damage could result in paralysis, pain, and bowel and bladder dysfunction; and
- Deep vein thrombosis (DVT), or postoperative complications.

Potential long-term complications include displacement of the artificial disc requiring re-operation and revision. Your specific risks will be explained in the office.

SURGERY DATE AND TIME

When you decide to have this surgery, you will receive a surgery date and tentative surgery time. Then, on the working day before your scheduled operation date (on Friday for a Monday surgery, for example), you will receive the exact time of your surgery. Your surgeon's office will call you by 3–5 p.m. to give you this time and make you aware of the time you need to arrive at the hospital. **Because confirmed surgery times are unavailable to us until the day before your scheduled surgery, we appreciate your patience and understanding with this timing.**

Before your surgery, preoperative testing will need to be completed. To ensure medical clearance and testing such as blood work and EKG are completed, the surgical facility will contact you and will schedule an appointment. If your surgery is scheduled at an outpatient surgery center, you may receive an order for preoperative testing to be done at your primary care office or local hospital.

BEFORE SURGERY INSTRUCTIONS

This important checklist will help to ensure that you are prepared and ready for your surgery. Please read it and ask your surgeon if you have any questions.

- **If you take any blood thinners**, for example Coumadin, Aspirin, Plavix, Xeralto, Eliquis, or Ticlid, **make sure your surgeon is aware of this medication, as soon as possible. You will be given specific instructions regarding any need to discontinue or modify your current use of any blood-thinning medication.** If necessary, your surgeon will get clearance from your cardiologist or other physician to ensure that this medication change is safe and appropriate for you, based on your heart history, including prior heart attack, stent placement, or open-heart surgery.
- Stop taking aspirin-based products 1 week before surgery. Also, stop taking non-steroidal anti-inflammatory drugs, such as ibuprofen, Naprosyn, Naproxen, Advil, and Motrin, at least 1 week before surgery.
- **Please do not eat or drink anything after midnight the day of your surgery.** This includes water, coffee, chewing gum, and hard candies. You may brush your teeth with toothpaste the morning of surgery.



CERVICAL ARTHROPLASTY (Artificial Disc Replacement)

(Before Surgery Instructions, continued)

- Some daily medications may be taken the day of surgery with a sip of water. Medications that are appropriate to take on the morning of surgery will be discussed with you by the hospital staff or your surgeon's nurse.

DAY OF SURGERY

Please review all of the information in your patient folder, including the map with directions regarding parking locations and outpatient registration in the hospital. This will help you arrive at the hospital for check-in at the designated time provided by your surgeon's office.

Your family may stay with you in the preoperative room until your scheduled surgery time.

AFTER SURGERY

After your surgery, you will be in the postoperative area for at least 4 hours. When you first wake up from the anesthesia, your throat will feel sore, and you will feel cold, thirsty, and groggy. Intravenous (IV) lines will be connected to supply your body with fluids.

After time in the recovery room, you will be transferred to the outpatient recovery area. Your family can return to spend time with you.

You will most likely be discharged to return home 4 hours after your surgery. However, if you have a more complicated medical history, you may require an overnight or longer hospital stay.

After you return home and are fully mobile, you may remove the support hose worn on your legs.

CERVICAL COLLAR

Your surgeon may give you a cervical collar for comfort. However, wearing the collar is not required. Your surgeon will clarify the instructions for wearing your collar. You may discover that wearing it while riding in the car is helpful, for example.

MANAGING YOUR PAIN

You may have significant pain behind your neck, between your shoulder blades, and around the surgical incision for the first few days and weeks after your surgery. You may experience some persistent arm pain, numbness, and tingling after surgery, because your nerve root requires time to recover. You may also experience neck discomfort and stiffness after surgery. To help you manage your pain, when you leave the hospital you will be given a prescription for pain medication.

Pain from surgery will change as you heal, and this fluctuation is normal and to be expected. As your healing progresses, consider these pain management techniques to help you gain control of your pain level.



CERVICAL ARTHROPLASTY (Artificial Disc Replacement)

(Managing Your Pain, continued)

- After acute surgical pain has improved, you should gradually discontinue use of the prescribed pain medication, which is often a narcotic. Prolonged use of such prescription narcotics will reduce your body's production of natural pain-fighting chemicals. When this medication is used for an extended period of time, you may develop a tolerance to it, resulting in the need for higher levels of pain medication.
- Once the pain begins to subside and you no longer need the prescription pain medication, **Tylenol and Tylenol-based products are safe to use.** You can use **non-steroidal anti-inflammatory drugs, such as ibuprofen, Motrin, Advil, and Alleve,** after the operation, and some surgeons may recommend their use with this operation.
- Ice may be used for discomfort as needed.

INCISION CARE

You will leave the hospital with a waterproof dressing on your incision site. This dressing should remain in place for 2 days after you return home. Under the dressing will be steri-strips, which are small adhesive strips across the surgical incision. Leave these steri-strips on the incision and allow them to fall off naturally; this usually occurs within 2 weeks. If after 2 weeks the steri-strips have not fallen off, you should remove them.

After removing the dressing, your incision can be open to the air. It is important for a family member to examine your incision each day for 1 week after surgery to monitor it for any changes as the healing process continues.

After you return home and are fully mobile, you may remove the support hose worn on your legs.

BATHING

You may shower any time after surgery, but pay attention to your body and do not shower if you are feeling lightheaded or tired. Simply pat your incision dry after your shower and leave the incision open to the air under your clothing.

Do not take tub baths or Jacuzzi baths, and do not go swimming for the first 3 weeks after your surgery.

CONSTIPATION

General anesthesia, inactivity after surgery, and pain-relieving prescription narcotics may cause constipation after surgery. It may be helpful to take a stool softener and/or laxative after surgery. These medications, which include Colace, Miralax, and Senokot, may be purchased over the counter at your local pharmacy.



CERVICAL ARTHROPLASTY (Artificial Disc Replacement)

EXERCISE

After leaving the hospital, physical therapy is not necessary for most patients. Your best therapy is walking, which increases blood flow to the spine and assists in the healing process. Try walking on a structured basis, beginning slowly at first and progressing on a regular basis as your pain begins to lessen.

If your recovery is slower, you may need additional therapy after surgery. If needed, physical therapy will be discussed with you at your follow-up appointment.

RESTRICTIONS

To protect your health and help you feel better as soon as possible after surgery, your surgeon suggests these important restrictions:

- **Do not drive for at least the first 1–2 weeks after surgery.** We recommend you drive only when you are no longer taking pain medications and when you can comfortably turn your body far enough to drive safely using the car's mirrors.
- **Do not lift anything heavier than 10 pounds** until you see your surgeon at the follow-up appointment 4–6 weeks after your surgery.
- **Do not do things that put strain on your neck.** Such activities include laundry, sweeping, vacuuming, shoveling, or yard work. When you are moving, remember to use good body mechanics through practices such as lifting objects close to your body rather than out in front of you.
- **Do not smoke:** it is not healthy for your back or the healing abilities of your body.

FOLLOW-UP APPOINTMENT

If you do not have a postoperative office appointment when you leave the hospital, call your surgeon's office to schedule one. The appointment should be made for approximately 4–6 weeks after your surgery.

If you have questions before your postoperative appointment, please do not hesitate to call your surgeon's nurse or secretary.

CALL THE SURGEON IF YOU EXPERIENCE ANY OF THESE SYMPTOMS:

- Signs or symptoms of infection, including redness, wound drainage, worsening pain, or a fever of more than 101 degrees;
- New or worsening weakness, pain, numbness, or tingling as compared to before surgery;
- Difficulty with bowel or bladder function; and
- Calf or leg swelling, tenderness, or redness.

If you have any questions or problems, please do not hesitate to call our office at (317) 396-1300 (or Toll Free (888) 225-5464).

Form updated December 2017

