



SPINAL CORD STIMULATOR SURGERY CARE PATH

Pre and post-operative information to help guide you through surgery.



Table of Contents:

General Information..... Pages 2 – 7

- ❖ Phone Contacts
- ❖ Anatomy of the Spine
- ❖ Frequently Asked Questions
- ❖ **Do's and Don'ts after surgery**

Pre-operative Care and Day of Surgery..... Pages 8 - 15

- ❖ Pre-surgical Clearance
- ❖ Medications Before Surgery
- ❖ Smoking Cessation
- ❖ Preparing Your Home
- ❖ Learning About Your Procedure
- ❖ Preparing Operative Site
- ❖ The Day Before Surgery
- ❖ What to Bring to the Surgery Center
- ❖ What If You Are Ill the Morning of Surgery
- ❖ When You Arrive at the Surgery Facility
- ❖ Anesthesia
- ❖ Recovering After Surgery

Post-operative Care..... Pages 16 - 28

- ❖ Pain Management
- ❖ Pain Medications
- ❖ Caring For Your Incision(s)
- ❖ Walking Instructions
- ❖ Activities to Help with Pain
- ❖ Proper Body Mechanics After Surgery
- ❖ Post-operative Constipation
- ❖ Blood Clot Prevention
- ❖ Infection Prevention
- ❖ Post-operative Nutrition

Phone Contacts:



FOR SERIOUS MEDICAL EMERGENCIES CALL 911

Office Hours are Monday – Thursday 8:00am – 5pm, and Fridays 8:00am – 4pm

William S. Bodemer, MD (920) 882-2343
Jennifer Heenan, APNP

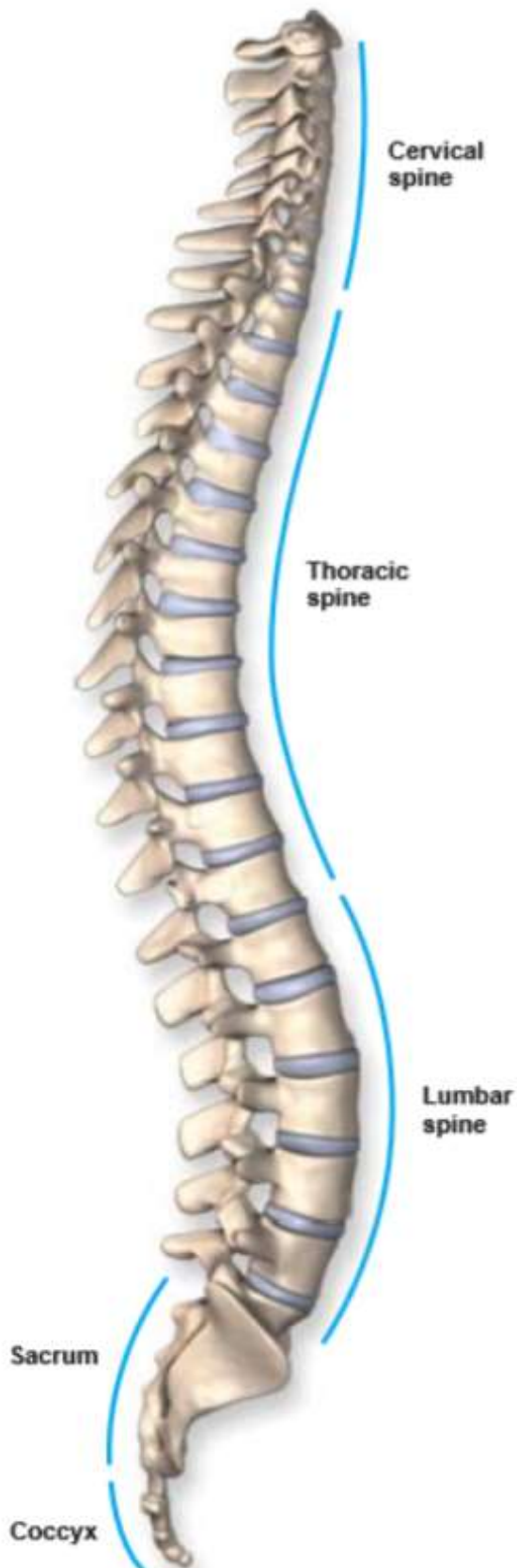
David C. DeWitt, MD (920) 882-8200
Jill Buchinger, APNP
Pamela Verkuilen, APNP

Karl A. Greene, MD, PhD, FACS (920) 882-2337
Anthony Lee, PA-C

Thomas M. Wascher, MD, FACS (920) 882-0818
David Bond, APNP

**If after hours, call (920) 882-8200 or (888) 231-5236 and ask for the
Physician on call**

Spine Anatomy:



Overview

The spinal column is the body's main support structure. Its thirty-three bones, called vertebrae, are divided into five regions: cervical, thoracic, lumbar, sacral, and coccygeal.

Cervical Region

The cervical region consists of seven vertebrae labeled C1 to C7. The first cervical vertebra is called the atlas. The second is called the axis. Together the atlas and the axis form the joint that connects the spine to the skull and allows the head to swivel and nod.

Thoracic Region

The thoracic region, located in the mid-back, consists of 12 vertebrae labeled T1 to T12. These vertebrae serve as attachment points for the rib-cage.

Lumbar Region

The lumbar region, commonly called the lower back, consists of five vertebrae labeled L1 to L5 this is the main weight-bearing section of the spinal column.

Sacral Section

The sacral region consists of 5 fused vertebrae labeled S1 to S5. These vertebrae form a solid mass of bone, called the sacrum, which provides the attachment point for the pelvis.

Coccygeal Region

The coccygeal region, commonly called the tailbone, consists of four small vertebrae. These tiny bones may be fused or separate. Together they form the coccyx, an attachment point for various muscles, tendons, and ligaments. The coccyx also helps support the body when a person is sitting.

Vertebrae

Altogether the vertebrae of the spine's five regions support the weight of the body and protect the spinal cord and nerve roots. Each individual vertebra has a complete set of structures necessary to the overall function of the spine.

Intervertebral Discs

Between the vertebral bodies are the tough elastic spinal discs. They provide a flexible cushion, allowing the vertebrae to bend and twist. Each disc has a tough outer wall called the annulus fibrosus and a soft interior called the nucleus

Vertebral Body

The main structure of a vertebra is the vertebral body, a cylinder shaped section of the bone at the front of the vertebra. It is the main weight-bearing section of the vertebra.

Vertebral Canal

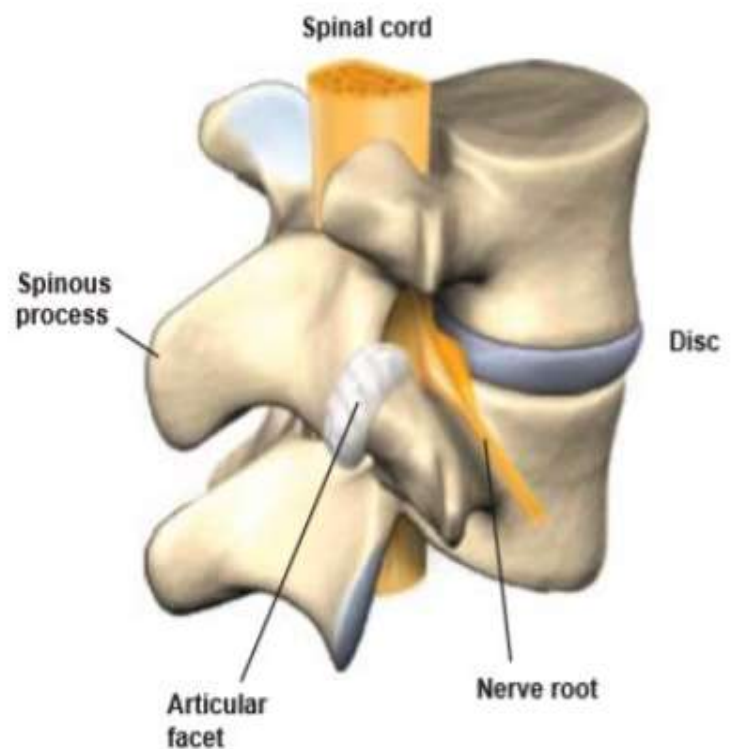
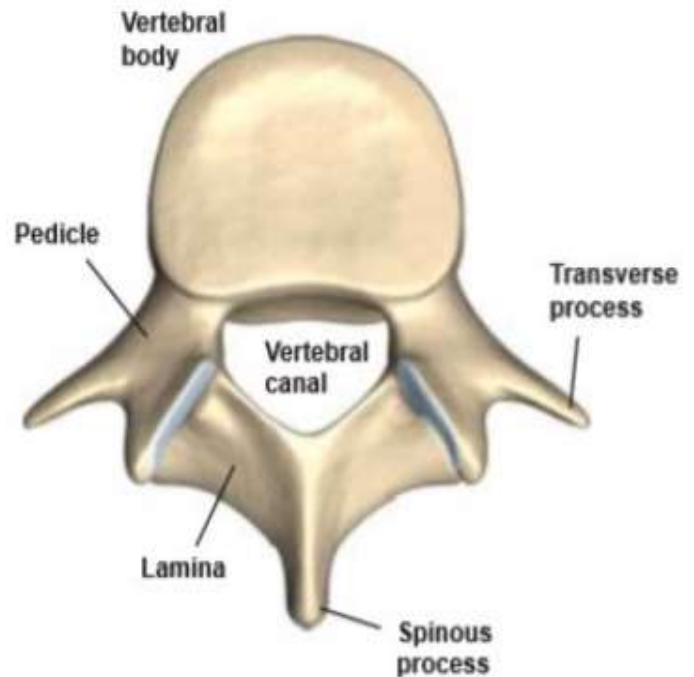
Behind the vertebral body is the vertebral canal. The spinal cord travels through this channel.

Spinal Cord

The spinal cord is the main bundle of nerve fibers connecting the brain to the rest of the body. The spinal cord ends near the L1 and L2 vertebrae, where it divides into bundles of nerve roots called the cauda equina.

Nerve Roots

Exiting the side of the spine are nerve roots, thick nerve branches that transmit signals between the spinal cord and other parts of the body.



Frequently Asked Questions:

1. What is the recovery time?

Each patient heals from surgery at a different pace. At first, you will have lifting, bending and twisting restrictions for approximately the first 2 weeks. After your first post-operative follow up appointment, these restrictions will be readdressed by your surgeon based on your recovery progress. More complete recovery can range from 2-4weeks.

2. When can I return to work?

It depends on the nature of your job. If your work is mostly sedentary, it is possible for you to return in approximately 2 weeks. If your work is more active, you may require up to 6 weeks before you can return to full duty. In some cases, more or less time off will be necessary.

3. How long will I be on pain medication?

It is not unusual to require some form of pain medication. Initially, the medication will be stronger (such as a narcotic and/or muscle relaxant). Taking it as prescribed usually provides the most effective pain relief. Most people are able to wean off their narcotic pain medication within the first week and progress towards an over-the-counter pain medication such as NSAIDs (e.g. ibuprofen products) or Tylenol/acetaminophen.

If you are currently taking gabapentin, DO NOT stop gabapentin (Neurontin) until you are instructed to by your surgeon.

4. How soon can I take a shower?

Follow your surgeon's instructions when to shower. Using a shower chair may offer you extra support and comfort until you become more mobile. A hand held shower head can also be helpful and is easy to install. Do not take a tub bath without permission from your surgeon. (This also includes swimming in pools or lakes and using hot tubs.)

5. When can I travel?

It is best that you check with your surgeon, but in general you can travel as soon as you feel comfortable doing so. You should get up to stretch or walk at least once an hour and stay well hydrated when taking long trips. This is important to help prevent blood clots.

Things to Avoid After Surgery:

Let pain be your guide. If any activity causes an increase in pain, STOP.

DO NOT stay in bed all day once you are home; doing so puts you at risk for several complications that will slow your recovery.

DO NOT use your time off after surgery to catch up on household chores, physical work, or heavy.

DO NOT bend, twist or lift more than 10 lbs (about a gallon of milk) until your post-operative follow-up appointment, unless otherwise ordered surgeon.

DO NOT raise your arms above your head.

DO NOT drive while taking narcotics.

DO NOT do any aquatic exercising until approved by your provider.

DO NOT take a bath, swim or other activities that would involve submerging the incision under water until it is well healed (2-3 weeks).

*IF you have external wires: (Trial) **DO NOT JIGGLE/PULL WIRES OR GET THEM WET, and DO NOT remove dressing.***



Things To DO For a Positive Recovery:

Movement can help keep your joints and muscles flexible, reduce pain, and improve balance and strength. Balance rest with activity.

DO increase physical activity as tolerated. Regular physical activity helps prevent constipation, makes you feel better about yourself, helps manage your weight, improves large back muscle tone and core strength and can prevent future episodes of back pain. The goal is walking 1-3 miles per day or walking for 1 hour. You can divide this up during the day as tolerated. Stair climbing is permitted.

DO let pain be your guide.

DO change positions about every 30 minutes; if you're sitting, get up and walk around a bit, even if it is just to the bathroom.

DO sleep on your side or your back if comfortable; use pillows for support and extra comfort.

DO remember to use the "log roll" technique when getting in and out of bed. Keep your knees bent when rolling.

DO make sure you contact our office *at least* 24 hours before you run out of any pain medications to ensure that you have enough when you need them. We do NOT refill prescriptions on the weekends.

DO be sure to drink at least 8 glasses of water daily. Increase your intake of fruits and vegetables every day to help prevent constipation.

DO take stool softeners and or laxatives as prescribed to prevent constipation which can lead to increased discomfort.



Pre-surgical Clearance:

Clearance appointments help providers determine that overall health conditions are optimal for surgery, or if additional interventions are required to decrease surgical risks.

Our office will assist you in scheduling all necessary appointments before surgery. It is important to have your exam and tests completed prior to your surgery to prevent possible delays.

Your Physical Exam:

You will need to have a physical exam within 30 days of surgery. Our surgery coordinators will schedule an appointment most likely with your primary care physician, or another provider in their office.

Other Tests before Surgery:

Labs, x-rays and other tests may be ordered in anticipation of surgery. The provider completing your physical exam may also order additional testing if necessary. Exam results will be shared with your spine team prior to surgery.

Medications before Surgery

Following instructions from your spine team will prevent your surgery from being delayed. Several medications, herbal supplements, and vitamins can have effects on bleeding, swelling, increase risk of blood clots and cause other problems if taken around the time of surgery.

A complete list can be found in the Pre-op folder on the yellow "Medication to Avoid Before Surgery" sheet.

Medications to discontinue 1-2 weeks prior to surgery

- ❖ **ALL ASPIRIN PRODUCTS**
- ❖ **ALL NSAIDS** (Nonsteroidal anti-inflammatory medications) including:

*Motrin (Ibuprofen)	*Aleve (Naproxen)	*Advil
*Voltaren (diclofenac)	*Excedrin	



You may also be required to stop other anticoagulation medications such as Plavix, Coumadin, and Warfarin. If you have a questions regarding medication instructions prior to surgery, please contact your physician to clarify instructions.

Smoking Cessation:

Nicotine and tobacco products increase the risk of postoperative complications.

Quit Smoking before Surgery

Smoking before surgery increases risks after surgery and slows the healing process. It can lead to:

1. Lung problems during and after surgery, including pneumonia.
2. Infection and poor wound healing.
3. Degeneration of your spine and discs.

Smoking cessation includes tobacco products, smokeless tobacco products, nicotine patches and nicotine gum.

Your surgeon *may* decide to postpone or cancel surgery if you have not adhered to smoking cessation as directed.



Resources to Help You Quit

- ❖ Wisconsin Tobacco Quit Line: (toll free) at 800-Quit Now 800-784-8669
- ❖ The National Alliance for Tobacco Cessation provides the latest information on how to quit smoking with its program called “Become an EX.” Proven methods to teach smokers how to quit and stay quit are provided.
- ❖ ThedaCare Tobacco-Free Program at 920-831-5064

Home Preparation:

Setting up your home to make recovery environment as safe and functional as possible

1. Clean and remove all clutter. Place extension cords and telephone cords out of walkways, or secure down with tape.
2. Remove throw rugs and secure loose carpeting.
3. Prepare a room on the main living level if you sleep upstairs, or set things up so climbing stairs is minimal during the day.
4. Stock up on toilet paper, shampoo, and other personal items.
5. Wash and put away laundry. Change linens on your bed.
6. Recovery time can vary. Prepare meals in advance and freeze them to provide extra convenience during this time.
7. Store frequently used items between hip and shoulder level to avoid reaching or bending throughout the day.
8. Have night lights placed in hallways or dark rooms.
9. Purchase or borrow any medical equipment you feel would assist with activities of daily living. This may include bathtub grab bar, toilet riser, bath or shower chair/bench, shoe horn, step stool, extended length grabber, etc.
10. Arrange for a family member or friend to check on you in your home to help get through the first couple of weeks after surgery. It may be helpful to coordinate help for mail pick up, lawn care, yard work, and pets.



About Your Procedure:

To view educational videos describing your procedure, please go to SPINE-HEALTH.com or visit us at Neurospinewi.com >> Learning Center



Preparing Operative Site for Your Procedure:

Following these instructions will reduce your risk of infection.

Instructions: Use Hibiclens or CHG 4% antimicrobial liquid soap for 2 consecutive days prior to surgery. (Unless otherwise instructed)

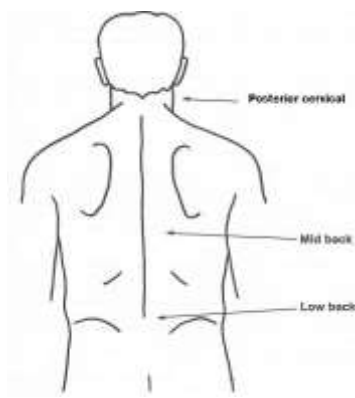
1. Wash face, hair & body with your own soap/shampoo in the shower; rinse thoroughly.
2. Using your antimicrobial soap and a clean washcloth starting from the neck down, wash your entire body for a minimum of three minutes. Pay close attention to the area of surgery. Let soap stand for an additional 60 seconds. **AVOID CONTACT WITH EYES.** Rinse thoroughly. Dry off with a clean towel.
3. Do not apply any lotions, powders, or creams to the surgical area after cleansing morning of surgery.
4. Repeat steps the day of surgery as well.
5. *If rash or allergic reaction occurs, stop using.*
6. Dress in clean clothes when shower is completed.



Hibiclens/CHG 4% can be purchased over the counter in the pharmacy area at many major retail outlets and drug stores.

Shaving

Do not shave surgical site within 48 hours of surgery.



Lumbar area: Mid to low back

Cervical area: Back of neck

What to Bring to the Surgery Center:

Bring your SURGERY PACK with you if you are staying overnight.

- ❖ Personal hygiene products (deodorant, toothbrush, toothpaste, comb and brush)
- ❖ List of current medications and with time and dosage information
- ❖ A CPAP machine if applicable
- ❖ A copy of your Power of Attorney paperwork
- ❖ Important phone numbers of friends and family
- ❖ Creature comforts such as books, magazines, lip balm or ear plugs
- ❖ Form of ID & insurance card
- ❖ Walker **IF** you are using one prior to surgery
- ❖ Wear loose fitting, comfortable clothing that does not fit tightly over area of surgery
- ❖ Do **NOT** bring non-essential valuables to surgery center/hospital
- ❖ Do **NOT** wear contacts the day of surgery; wear your glasses

The Day before Surgery

DO NOT eat or drink anything after midnight, **INCLUDING WATER AND COFFEE**, unless otherwise directed by your provider. Eating or drinking the day of surgery may cause your surgery to be rescheduled or cancelled.

DO NOT chew gum after midnight.

NO alcoholic beverages or smoking 24 hours before your surgery.

YOU MAY TAKE any medications you were instructed to with a sip of water the morning of surgery.

Remove nail polish from fingernails.

Remove all jewelry, and piercings. Your surgeon may be required to cut-off items during surgery if not previously removed.



If You Get Ill Morning Of Surgery:

What to do if you are not feeling well the morning of surgery

When having surgery or anesthesia, it is important that you are in the best possible health. If you have a new illness or a flare up of an old condition not related to the reason for your surgery, sometimes the safest practice may be to delay the procedure until you are well.

Don't assume that your surgery will be delayed if you are sick. If the procedure is urgent or your illness is related to the surgical problem, then it might be best to go ahead with the procedure as planned.

Contact our office as soon as you think you may have an illness that may delay surgery.

If you get sick on the day of your surgery, call (920)882-1160 or the Surgery Center where your surgery is scheduled and ask to speak to the nurse in charge.

If you are ill the morning of surgery and unable to reach staff at the NeuroSpine Center, you may contact the Surgery Center where you are scheduled.

Theda Clark Medical Center: 920-729-3336
Aurora Medical Center: 920-303-8708
Orthopedic and Sports Institute of the Fox Valley: 920-731-3111
Mercy Medical Center: 920-223-1486

Examples of Conditions that May Delay Surgery Include:

Cold or sinus infection within two weeks of surgery
Pneumonia or bronchitis within a month of surgery
Stomach virus or flu
Fever
Wheezing
Chest pain which is worse than usual
Diabetes severely out of control
Infected skin, lesions or rash in the area of surgery

If your surgery is canceled, contact our office to reschedule. Preoperative testing may or may not need to be repeated.

When You Arrive at the Surgical Facility:

When you arrive to the surgical facility you will be brought back to the pre-operative area. Things to anticipate while you are there:

- ❖ You will be asked to remove clothing (including socks and underwear) and change into a gown.
- ❖ Before going back to the surgical area, you will also need to remove any contact lenses, dentures, jewelry, or any other removable items. Your personal belongings will be stored in a safe place and returned to you after surgery, or they can be given to your visitors to hold while you are in surgery.
- ❖ An IV will be started and vital signs taken. Any additional lab work or testing will be done if requested by your surgeon.
- ❖ You will be asked to complete and sign your Surgical Consent and other required paperwork.
- ❖ You will meet your Anesthesiologist and Operating Room Nurse.
- ❖ You will then be taken to the surgical area on a patient cart. At that time, if any visitors are still with you, the nurse will direct them to the waiting area. When surgery is done, your surgeon will communicate how surgery went with family/friends that may come with you that day.
- ❖ Once in the operating room, monitors will be placed to help observe your blood pressure, oxygen levels and cardiac activity. Anesthesia will then be started.



Anesthesia and You:

To help ensure your comfort, anesthesia will be administered before and during your procedure. Your anesthetic will induce sleep with medications given through your IV.

Ensuring that you're well-informed

The anesthesiologist will meet with you prior to surgery. This is a great time to discuss past experiences with anesthesia or questions and concerns you may have.

If you have experienced motion sickness and/or nausea in the past, please inform our anesthesiologist before your surgery.

Post-operative nausea

Recently introduced drugs help prevent post-surgery nausea. If you are at high risk for experiencing nausea and vomiting, rest assured that you will be given appropriate medication before and after your surgery.



Recovering After Surgery:

Post surgical recovery happens in stages:

You will wake up and recover in the post-anesthesia care unit (PACU) until stable. You will then be moved to a step down recovery area or, if staying overnight, to your hospital room.

Discharge times can vary from patient to patient. Goals to achieve prior to discharge:

<ul style="list-style-type: none"> ❖ Tolerating fluids and food ❖ Passing gas/bowel sounds present 	<ul style="list-style-type: none"> ❖ Pain controlled with oral medication ❖ Urinating 	<ul style="list-style-type: none"> ❖ Walking (with or without assistance) as directed ❖ No other medical issues present
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Pain Management after Surgery:

Controlling pain is important for reducing stress, and increasing mobility after surgery.

As a spine surgery patient, you will be expected to:

- ❖ Share with your care team what has or has not worked in the past for pain control.
- ❖ Have realistic pain control goals. Being PAIN-FREE immediately after surgery is not a realistic goal.
- ❖ Reporting pain as a number will assist your care team to determine how effective your treatment plan is working, and whether adjustments need to be made.

Hospitals and clinic staff will use the 0-10 scale below to help rate your current pain levels.

Severity	Description of Experience
10 Unable to Move	I am in bed and can't move due to my pain. I need someone to take me to the emergency room to get help for my pain.
9 Severe	My pain is all that I can think about. I can barely talk or move because of the pain.
8 Intense	My pain is so severe that it is hard to think of anything else. Talking and listening are difficult.
7 Unmanageable	I am in pain all the time. It keeps me from doing most activities.
6 Distressing	I think about my pain all of the time. I give up many activities because of my pain.
5 Distracting	I think about my pain most of the time. I cannot do some of the activities I need to do each day because of the pain.
4 Moderate	I am constantly aware of my pain but I can continue most activities.
3 Uncomfortable	My pain bothers me but I can ignore it most of the time.
2 Mild	I have a low level of pain. I am aware of my pain only when I pay attention to it.
1 Minimal	My pain is hardly noticeable.
0 No Pain	I have no pain.

Pain Medications:

For post-operative pain management, follow the medication plan provided to you by your surgeon.

If you have an allergic reaction or intolerance to the prescribed medications, contact our office to have your current treatment plan adjusted.

Narcotic pain medications are effective in diminishing pain perception and can effectively manage acute pain, such as surgery. The goal is for short term use.

Patients taking narcotic pain medications can experience nausea, confusion, drowsiness, and constipation. Use these medications only as prescribed and *as needed*. After the first 48-72 hours, switch to or supplement with over-the-counter pain medications to decrease the amount or need for narcotic pain medication. Icing and ambulation/walking should be done whenever possible for additional pain control. **Make sure you eat 5 minutes before taking narcotic pain medicine**



*** **Percocet, Hydrocodone, Oxycodone, OxyContin, Vicodin, Morphine and Dilaudid all require a hand-written prescription for refills. They can NOT be called in. Refills should be requested at least 24HOURS PRIOR.**

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Wisconsin healthcare providers are taking a step in the right direction! The number of prescribed opioids declined 18% from 2010 to 2015.

Never flush or drain unused narcotic medication. Whenever possible, take unused prescription drugs to a collection program or event. To find the nearest location go to:

<http://doseofrealitywi.gov/drug-takeback/find-a-take-back-location/>

Caring for Your Incision Site:

Some shadowing on your dressing is normal in the beginning. Change dressing as needed. Decreases in dressing changes should occur over the first few days. When drainage discontinues, you may leave dressing off.

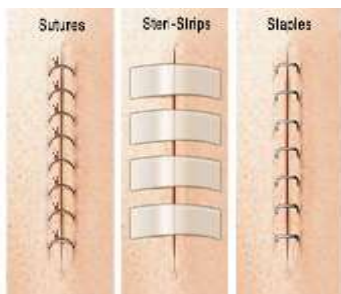
How to Care for Your Incision

- ❖ Monitor and keep the incision clean and dry daily.
- ❖ Check for increase in redness, swelling or drainage. (Some mild or minor redness/swelling is normal).
- ❖ A small amount of slightly blood tinged drainage from the incision is normal.
- ❖ Do not wash directly over the incision.
- ❖ Wash around the incision gently with soap and water, and pat gently dry with clean towel.
- ❖ Avoid submerging your incision until it is completely healed. This includes hot tubs, baths, and swimming pools.
- ❖ Do not use creams, lotions, ointments or alcohol near or on the incision.

Always wash your hands before caring for your incision.

Your incision may be closed with sutures under the skin which will absorb over time and not need to be removed. Steri-strips (small pieces of tape) covering the incision will slowly peel up at the edges as they get wet in the shower. Do not remove your steri strips. They will be removed during your first post-operative appointment.

If your incision is closed with sutures or staples do not pull on them. They will be removed at your first follow-up appointment. As the incision heals it is normal for this area to itch slightly. Be careful not to scratch the area to the point of opening your skin.



If you have EXTERNAL WIRES (Trial): Keep wires clean and dry. Do not remove or change dressing during entire trial. Do not allow water from shower to contact wires. Absolutely no submerging in water while there are external wires coming through the skin. Contact our office if you are having any issues with the dressing.

Walking Instructions:

Walking is the best activity you can do after surgery and will help with your recovery progression. Movement will help keep joints and muscles flexible, reduce and improve strength and balance.

You should be able to carry on a conversation while walking. If not, you are working too hard and need to slow down your speed.

The goal is to walk 1-3 miles over the course of the day, but this may take some time to achieve.

Early activity is very important after your surgery. Activity such as walking will:

- ❖ Increase blood flow
- ❖ Reduce pain
- ❖ Improve bowel and bladder function
- ❖ Prevent blood clot formation
- ❖ Minimize muscle spasm and swelling
- ❖ Decrease surgical complications







Change positions about every 20-30 minutes while awake to prevent stiffness

Ice can decrease inflammation and help alleviate pain. Use an ice pack or cryocuff (if available) for 20 minutes at a time. Do not apply ice directly to skin.



Mobility and Range of Motion Activities:

Try these activities when sitting or lying down. Additionally, shoulder rolls and shoulder shrugs can be used for upper extremity mobility and range of motion.

<p>Elevate leg, gently flex and extend ankle. Alternate each leg, repeat as tolerated.</p> 	<p>Slowly rotate foot and ankle clockwise, and then counter clockwise. Gradually increase range of motion. Alternate each leg, repeat as tolerated.</p> 
 <p>Raise toes keeping heels on the floor. Repeat as tolerated.</p>	 <p>Raise heels, keeping toes on floor. Repeat as tolerated.</p>
 <p>Bring leg out to side and return. Alternate each leg, and repeat as tolerated.</p>	 <p>Tighten buttock muscles. Repeat as tolerated.</p>

Using Proper Body Mechanics after Surgery:

Proper body mechanics during everyday activities will help reduce incisional discomfort and promotes a strong health spine preventing future injury.

General Body Mechanics after Surgery

- ❖ **DO NOT** bend at the waist, **DO** bend at the hips and knees.
- ❖ **DO NOT** lift objects heavier than 10 lbs. (about a gallon of milk), unless otherwise instructed by your surgeon.
- ❖ **DO** Let pain be your guide.

Everyday Activities After Surgery

Pushing/Pulling

Always PUSH, rather than PULL.
Keep your back straight and shoulders back.

Hold objects close to your core to avoid stress on lower back.



Sleeping

You can sleep in any position you find most restful. Keeping your body in a “mid-line” **position**, where both your head and neck are kept as straight as possible, usually will provide the most comfort.



Bending the knees and placing another pillow between the knees keeps the spine in the neutral position.

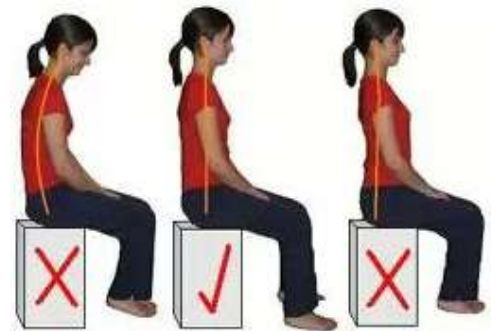


Using Proper Body Mechanics after Surgery:

Sitting

Keep your feet and knees pointed straight ahead, not turned in or out. Your knees should be either stretched out or bent in a way you find comfortable. Placing a small pillow in the lower back area may give you extra lumbar support.

If you are having difficulty changing positions it may be best to sit in a firm chair with a straight back & armrests, avoid stools, sofas, soft chairs, rocking chairs, and chairs that are too low.



Bathing

Prevent slips and falls by using nonslip bathmats on your bathroom floor and in your tub or shower. Watch out for hazards, such as wet floors.

Use grab bars in your shower or tub for support as you get in and out. **DO NOT** grab towel bars, as they cannot dependably support weight.

Installing a hand-held shower hose can give extra post-operative convenience.

Keep the soap and shampoo within reach. Sit on a bath bench or shower chair while you shower. Use a long-handled sponge to wash hard-to-reach areas.



Dressing

Lie on back to pull socks or pants over feet, or sit and bend leg while keeping back straight.



Proper Body Mechanics during Other Daily Activities:



Log roll in and out of bed: Avoid bending/twisting which can cause discomfort. While lying on your back, bend your knees. Roll onto your side. Keep your shoulders and hips together as a unit as you roll. Place your bottom hand underneath your shoulder. Place your top hand in front of you at chest level. Your shoulder and knees should always point in same direction. Reverse order for getting out of bed.



Emptying dishwasher and washing/drying machines: Keep your spine in a neutral (straight) position, and use your legs to bring you closer to your target. Let your arms interact with the work to be done. Keep all objects close to your core when lifting. Remember any objects being lifted should be within your restrictions given by your provider.



Grocery shopping: Do not use any hand held shopping baskets if your provider has given you weight lifting restrictions. Opt for the larger rolling shopping carts.

Proper Body Mechanics during Other Daily Activities:



Correct posture

Wrong posture



Activities requiring standing in place: Avoid “hunching over”. Keep spine straight and shoulders back. Using the ledge of a cabinet, a step stool, or transferring weight from foot to foot can add additional comfort.

Picking up objects off the floor: Use the “Partial Golf Pickup”. With one foot planted, keep back straight and pivot at hips while extending opposite leg backwards when reaching an object.



Child care: Although it can be difficult, lifting children during weight restrictions must be avoided.



Climbing stairs: Keep head forward, spine straight and shoulders back when climbing stairs. ALWAYS use railings to avoid post-operative slips, trips, and falls.

Post-operative Constipation

It is common to be constipated after surgery.

Following surgery, difficulty having a bowel movement may occur, especially if you are taking narcotic pain medications. You will most likely be prescribed at least one type of stool softener and or laxative (Miralax and/or Docusate sodium). Contact your primary care physician if you have not had a bowel movement for 3 or more days.

Tips to Prevent Constipation

- 1) Drink plenty of water.
- 2) Chewing gum post-operatively will also help speed up gastric and bowel activity.
- 3) Decrease narcotic pain medication as much as possible.
- 3) Get moving!
- 4) Consider using an enema or suppository.

Venous Thromboembolism (VTE):

When you have surgery, your body is at risk for blood clots (VTE).

Deep Vein Thrombosis (DVT):

- ❖ Swelling in one or both legs
- ❖ Warmth, pain, or tenderness
- ❖ Red and discolored skin in one leg

Pulmonary Embolism (PE)

- ❖ Shortness of breath
- ❖ Problems breathing
- ❖ Chest pain, worse during breathing
- ❖ Heart palpitations

To prevent VTEs make sure to drink plenty of fluids during the day, avoid tight clothing, do not cross your legs, and stay active. Avoid prolonged bedrest during the day. Inactivity causes blood to collect in the lower part of the body. Walking and range of motion exercises such as ankle rolls, and foot flexion will help with lower body circulation. If activity level is decreased after surgery, compression stockings can be used until activity returns to baseline.

Infection Prevention:

You play a very important role in preventing post-surgery infection. *Hand washing is the single most effective way to prevent the spread of infection.*

Signs of Surgical Site Infection

- ❖ Redness, warmth, and increased pain at incision site
- ❖ Fever above 101
- ❖ Cloudy or foul smelling drainage from your surgical site

Call your provider immediately if you notice any of the above signs of infection (920)882-8200

Smoking:

Research shows that those who smoke or are exposed to second-hand smoke have a significantly increased risk of developing an infection.

Diabetes:

This disease can slow down your body's ability to fight infection. High blood sugar (glucose) leads to high levels of sugar in your body's tissues. When this happens, bacteria grow and infections can develop more quickly.

It's important that you maintain your glucose level within the recommended range. It is common to notice an increase in your blood sugar levels after surgery due to stress on your body and medication you may be taking.

Home Environment:

Although they are not visible, bacteria are everywhere. While you recover, it's important to keep your home environment as clean as possible. Pets can be a source of infection for patients who have open surgical wounds. Air polluted with second-hand smoke, or with germs of someone who may be sneezing and coughing, can also be a source of infection.



Post-Surgical Nutrition:

Resume any dietary restrictions you may have such as Diabetic, Low Sodium or Cardiac/Heart Healthy following surgery.

<p style="text-align: center;"><u>Soft Diet</u></p> <p><i>After cervical surgeries, a soft diet, ice chips and cool fluids can help with throat soreness and inflammation. Consider:</i></p> <p>*Oatmeal *Pasta *Applesauce *Eggs *Soups *Cooked vegetables *Mashed potatoes *Protein shakes *Ensure/Glucerna (diabetic)</p> <p>Yogurt/ice cream/pudding/cheese. However, dairy products may increase post-operative phlegm</p>	<p style="text-align: center;"><u>Bland Diet</u></p> <p><i>Decreased appetite or nausea can be experienced and a bland diet will be recommended. Consider:</i></p> <p>*Eggs *Soup *Crackers *Pudding *Cooked pasta *Milk or dairy *Lean meats *Protein shakes</p> <p>Consider supplementing diet with Ensure/Glucerna (diabetic) to have adequate caloric intake during this time</p>
<p style="text-align: center;"><u>High Protein</u></p> <p><i>Protein helps with tissue healing, and provides energy and strength after surgery. Consider:</i></p> <p>*Eggs *Milk *Cottage Cheese *Oats *Greek Yogurt *Nuts *Lean Meats *Protein Shakes</p>	<p style="text-align: center;"><u>High Fiber</u></p> <p><i>Fiber can help with post-operative constipation. Consider:</i></p> <p>*Oranges *Apples *Bananas *Broccoli *Carrots *Whole Grains *Bread *Cereal *Beans</p>
<p style="text-align: center;"><u>Carbohydrates</u></p> <p><i>Eating the right kind of carbohydrates after surgery can help restore energy levels. Consider:</i></p> <p>*Whole Grains *Fruits *Vegetables *Beans</p>	<p style="text-align: center;"><u>Vitamins/Minerals</u></p> <p><i>Essential for bone growth and tissue repair. Consider:</i></p> <p>*Eggs *Fruits/Vegetables *Fish *Liver *Milk/Dairy *Lean Meats *Fortified Cereal</p>
<p style="text-align: center;"><u>Fats</u></p> <p><i>Healthy fats can improve the immune system and aid the body's absorption of vitamins. Consider:</i></p> <p>*Olive Oil *Coconut Oil *Avocados *Nuts</p>	<p style="text-align: center;"><u>Water</u></p> <p><i>Stay hydrated after surgery! Proper hydration isn't only necessary for healing, but may also be necessary to help your body absorb medications following surgery. Be sure to drink at least eight glasses of water every day after surgery to stay hydrated.</i></p>

Road to Recovery:

What if your recovery is taking longer than anticipated?

- ❖ Discuss symptoms or concerns with your spine team to determine if additional interventions are needed.
- ❖ Remember everyone recovers differently. Allow yourself time to heal.
- ❖ STAY POSITIVE! Do not become discouraged.
- ❖ Don't stop doing things if you still have pain. Make adjustments to find an easier way of doing them. Inactivity will cause you to stiffen up and will lead to more pain and discomfort.



Thank you for choosing the NeuroSpine Center of Wisconsin