

Guidebook for Hips



The Bone and Joint
DESTINATION CENTER

A PROGRAM OF
ARTESIA GENERAL HOSPITAL

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Section One: Preparing for Surgery

Welcome

We are pleased you have chosen **The Bone and Joint Destination Center**, a Program of *Artesia General Hospital*, to have joint replacement surgery.



The goal of surgery is to:

- Relieve pain.
- Restore independence.
- Restore function.
- Return to an active lifestyle.

How to Use This Guidebook

The Guidebook will assist you with:

- What to expect.
- What you need to do.
- How to care for your new joint.

Your doctor, nurse, or therapist may add or change any of the recommendations. Always use their recommendations first and ask questions if you are unsure.

The Mission of the Bone and Joint Destination Center is to provide quality healthcare focused on restoring and enhancing independent lifestyles for patients with bone and joint disorders.

Joint Center Overview

We offer a unique program to encourage discharge from the hospital one to two days after surgery. Program features include:

- Nurses and therapists trained to work with joint patients
- Casual clothes
- Private rooms
- Family and friends encouraged to be “coaches”
- Joint Care Coordinator who coordinates pre-operative class

We strive to enable patients to walk the first day after surgery and normal activity in six to 12 weeks.

Your Joint Care Team

Orthopedic Surgeon - will perform the procedure to repair your damaged joint.

Nurse Practitioner (NP) & Physician’s Assistant (PA) – will assist your Orthopedic Surgeon with your care.

Registered Nurse (RN) - will ensure orders by your doctor are completed.

Physical Therapist (PT) - will guide you through functional daily activities and teach you exercises to regain your strength/motion.

Occupational Therapist (OT) - will guide you on performing tasks such as bathing/dressing and demonstrate home equipment use.

Joint Care Coordinator (JCC) will:

- Coordinate Pre-Op education class
- Make Rounds while you are in the hospital.
- Collaborate with Case Management regarding your discharge plan.
- Act as your advocate throughout treatment.
- Answer questions and coordinate hospital care.



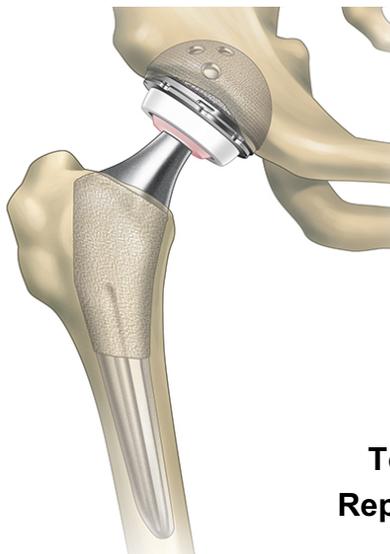
Hip Anatomy and Arthritis



Healthy Hip



Arthritic Hip

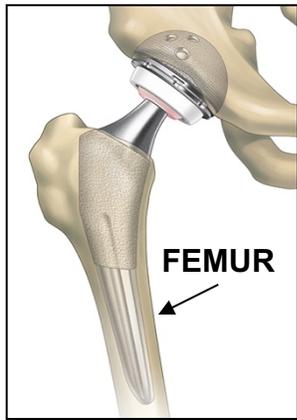


**Total Hip
Replacement**

Frequently Asked Hip Questions

What is osteoarthritis and why does my hip hurt?

Osteoarthritis, the most common form of arthritis, is a wear and tear condition that destroys joint cartilage. Joint cartilage is durable, smooth tissue that covers the ends of bones where joints are located. It cushions the bones during movement, and because it is smooth and slippery, it allows for motion with minimal friction. Trauma, repetitive movement, or for no apparent reason, the cartilage wears down exposing the bone ends. Over time, cartilage destruction can result in painful bone-on-bone contact, swelling and loss of motion.



What is total hip replacement?

The term total hip replacement is misleading. The hip is not replaced, but rather an implant is used to re-cap the worn ends of the bone.

- Head of femur (bone between the hip and knee) is removed.
- Metal stem is inserted into femur shaft and topped with a metal or ceramic ball.
- Worn socket (acetabulum) is smoothed and lined with a metal cup and either a plastic, metal, or ceramic liner.
- No longer does bone rub on bone, causing pain and stiffness.
-

How long will my new hip last and can a second replacement be done?

All implants have a limited life depending on an individual's age, weight, activity level, and medical condition(s). How long a joint implant lasts will vary by patient. An implant is a medical device subject to wear that may lead to mechanical failure. There is no guarantee that your implant will last for any specified length of time.

What are the major risks?

Most surgeries go well, without complications. However, infection and blood clots are two serious complications. To avoid these complications, your surgeon may use antibiotics and blood thinners.

What happens during hip surgery?

Typically, the hospital will reserve approximately one to two hours for surgery. Some of the time will be taken by operating room staff to prepare you for surgery. You may receive general anesthetic – “being put to sleep.” Some patients may receive a spinal or epidural anesthetic – which numbs the legs and does not require you to be asleep. The choice is between you, your surgeon, and the anesthesiologist.



Will surgery be painful?

You will have discomfort following surgery, but we keep you comfortable with appropriate medication. Most patients will receive oral pain medication and may receive some additional IV medication for “breakthrough” pain if needed.

How long and where will my scar be?

Type of surgical technique will determine location and length of scar. Traditional approach is to make incision lengthwise over side of hip. Your surgeon will discuss which type of approach is best for you. There may be some numbness around scar after it is healed. This is normal and numbness disappears with time.

Will I need a walker or a cane?

You will progress at your own rate. Often patients use a walker immediately after surgery. A member of your care team can arrange for equipment as needed.



How long will I be in the hospital?

You will be hospitalized usually only one to two nights in the hospital after surgery. Patients are generally discharged to home once they are able to sit, stand, and walk safely with a walker or other assistive device. Most patients will be out of bed the day of surgery. The next morning most patients get up, sit in a chair, and should be walking with a walker.

Include Your Personal Coach

Your coach should plan to come with you to attend the preoperative class, visit during your hospital stay, provide support during physical therapy, and keep you focused on healing. They will also be a valuable extra set of eyes and ears to help keep you on track with all of the information you will be receiving over the next several weeks.



Attend a Preoperative Class

Attend a class for joint surgery patients. Bring your coach. If you cannot attend, inform the Joint Care Coordinator.

Preoperative education class helps you and your coach prepare for your upcoming surgery and postoperative needs. The class provides an understanding of what will happen before, during and after surgery and allows an opportunity for questions and answers. It is important all patients and their coach attend a class 2-3 weeks prior to surgery.

Class Outline:

- Joint Disease
- What to Expect from Coach/Caregiver
- Meet the Joint Care Coordinator
- Learn Breathing Exercises
- Review Preoperative Exercises
- Learn About Assistive Devices and Joint Protection
- Discharge Planning/Insurance/Equipment



Put Your Health Care Decisions in Writing

Advance Medical Directives are printed instructions that communicate your wishes regarding healthcare. As there are different directives, it is a good idea to consult your attorney concerning the legal implications of each. For example:

- A Living Will explains your wishes if you have a terminal condition, irreversible coma, and are unable to communicate.
- Appointment of a Healthcare Agent (sometimes called a Medical Power of Attorney) lets you name a person (your agent) to make medical decisions if you become unable to do so.
- Healthcare Instructions are your choices regarding use of life-sustaining equipment, hydration, nutrition, and pain medications.
- If you have an Advance Medical Directive, please bring a copy of the document with you to the hospital.



Eating Right For Recovery

How you treat your body the weeks before and after surgery can have a direct effect on how well and how quickly you will heal. Now is the time to take a proactive approach and give your body the building blocks it needs for the best possible recovery. A little preparation now can make a big difference in your recuperation later. Rather than waiting until after your surgery, start the healing now! Simple steps you can take include:

- Begin your healthy eating plan at least 2 weeks prior to surgery and consider making it a lifetime commitment.
- Eat a well-balanced diet rich in iron, Vitamin C and calcium.
- Avoid alcohol especially in the 48 hours prior to surgery.

IMPORTANT NOTE: If you are diabetic or on any type of restricted diet, you should consult your doctor prior to starting any diet.

Why Iron and Vitamin C Are Important

Iron is needed to build healthy red blood cells. Vitamin C improves the absorption of iron – in other words, Vitamin C makes it easier for the iron to get into the body and work more efficiently.

During surgery, some blood loss is expected. Ample levels of iron and Vitamin C in your body prior to surgery will help in the replacement of red blood cells that are lost during your operation. Your surgeon may even prescribe iron supplements.



Guidebook for Hips

Here is a list of iron and Vitamin C rich foods you may want to add to your diet:

IRON RICH FOODS	Iron Content mg/serving	Serving Size	VITAMIN C RICH FOODS	Vitamin C Content mg/serving	Serving Size
<i>Beef, lean</i>	7	3 oz	<i>Green Peppers</i>	65	½ cup
<i>Spinach</i>	6	1 cup	<i>Strawberries</i>	95	1 cup
<i>Lima beans</i>	2	½ cup	<i>Cantaloupe</i>	60	½ melon
<i>Dried Peaches</i>	3	½ cup	<i>Kiwi</i>	75	1 whole
<i>Navy Beans</i>	3	½ cup	<i>Grapefruit</i>	40	½ whole
<i>Soy Beans</i>	5	½ cup	<i>Broccoli</i>	60	½ cup
<i>Bran Flakes</i>	20	3 oz	<i>Brussels Sprouts</i>	50	½ cup
<i>Prune Juice</i>	3	1 cup	<i>Tomato Juice</i>	35	¾ cup
<i>Baked Potato</i>	3	1 medium	<i>Spinach</i>	28	1 cup
<i>Cashews</i>	6	3 oz	<i>Kale</i>	120	½ cup
<i>Poultry (dark)</i>	2	3 oz	<i>Cabbage (raw)</i>	50	½ cup
<i>Eggs</i>	1	1 medium	<i>Oranges</i>	70	1 whole

Why Calcium is Important

Calcium is an important mineral needed for building new bone as well as maintain existing bone strength. During joint replacement surgery, bone is removed and an implant is put in its place. Eventually, new bone will grow around parts of the implant and help make it more stable. A diet rich in calcium can help with this process.

Here is a list of calcium rich foods you may want to add to your diet:

CALCIUM RICH FOODS	Calcium Content mg/serving	Serving Size
<i>Yogurt (non-fat)</i>	452	1 cup
<i>Yogurt (low-fat)</i>	415	1 cup
<i>Cereal (fortified)</i>	300	1 cup
<i>Cheese - Swiss</i>	408	1 oz
<i>Cheese - Cheddar</i>	306	1 oz
<i>Tofu w/ calcium</i>	434	1 cup
<i>Almonds</i>	150	2 oz
<i>Waffle (fortified)</i>	150	1 each
<i>Orange Juice w/ calcium</i>	300	1 cup
<i>Milk – 2%</i>	297	1 cup
<i>Milk - Skim</i>	302	1 cup
<i>Broccoli</i>	89	1 cup
<i>Sardines</i>	321	3 oz



IMPORTANT NOTE:

A sudden increase in your diet of green leafy vegetables can interact with certain blood thinning medications such as Coumadin (warfarin) and Plavix (clopidogrel). If green leafy foods such as spinach, broccoli and brussel sprouts are a normal part of your diet, it is important to eat a consistent amount from week to week.

Stop Smoking Before Surgery

Smoking and vaping can affect your body's ability to heal by reducing the amount of oxygen circulating in your blood. Because oxygen is vital for healing, it is crucial that you quit smoking today!

Smoking¹ and Vaping:

- Delay your healing process.
- Reduce the size of blood vessels and decreases the amount of oxygen circulating in your blood.
- Can increase clotting which can cause heart problems.
- Increase blood pressure and heart rate.

If you quit smoking before surgery, you will improve your ability to heal. If you need help quitting, please ask about hospital resources.

When you are ready:

- Decide to quit.
- Choose the date.
- Limit the area where you smoke; don't smoke at home.
- Throw away all cigarettes, electronic cigarettes and ashtrays.
- Don't put yourself in situations where others smoke.
- Reward yourself for each day without cigarettes.
- Remind yourself that this can be done – be positive!
- Take it one day at a time – if you slip, get back to your decision to quit.
- Check with your doctor if you need products like chewing gum, patches or prescription aids.



Artesia General Hospital is non-smoking campus. You will not be allowed to go outside and smoke while in the hospital.

¹Smoking Threatens Orthopedic Outcomes. Negative effects should prompt orthopedists to address the issue with patients. S. Terry Canale, MD; Frank B. Kelly, MD; and Kaye Daugherty

<http://www.aaos.org/news/aaosnow/jun12/cover2.asp> Motrin is a registered trademark of McNeil-PPC, Inc. All rights reserved by trademark owner.

Practice Breathing Exercises

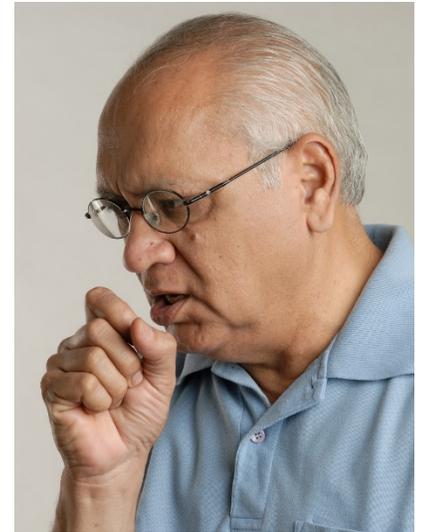
To help prevent problems such as pneumonia, it's important to practice breathing exercises using the muscles of your abdomen and chest. Techniques such as deep breathing, coughing, and using an Incentive Spirometer may help prevent respiratory complications after surgery. Practice your breathing exercises as directed by your surgeon or nurse.

Deep Breathing

- Breathe in through your nose as deep as you can.
- Hold your breath for five to 10 seconds.
- Breathe out as if you were blowing out a candle. Notice your stomach going in. Breathe out for 10 to 20 seconds.
- Take a break and then repeat the exercise 10 times.

Coughing

- Take a slow deep breath. Breathe in through your nose and fill your lungs completely.
- Breathe out through your mouth and concentrate on your chest emptying.
- Repeat.
- Take another breath, but hold your breath and then cough hard. When you cough, focus on emptying your lungs.
- Repeat all steps twice.



Incentive Spirometer

Techniques such as deep breathing, coughing, and using an Incentive Spirometer may help prevent respiratory complications after surgery.

Prepare Your Home

Make sure everything you need is easy to get to and on the same floor where you will spend most of your time.

- Have a bed that is low enough so that your feet touch the floor when you sit on the edge of the bed.
- Set up your bed on the first floor if you can.
- Have a bathroom or a portable commode on the same floor where you will spend most of your day.
- Stock up on canned or frozen food, toilet paper, shampoo, and other personal items.
- Either buy or make single meals that can be frozen and reheated.
- Make sure you can reach everything you need without getting on your tiptoes or bending down low.
- Put food and other supplies in a cupboard that is between your waist and shoulder level.
- Place glasses, your teapot, and other items you use a lot on the kitchen counter.
- Place a chair with a firm back in the kitchen, bedroom, bathroom, and other rooms you will use. This way, you can sit when you do your daily tasks.
- If you will be using a walker, attach a sturdy bag or a small basket to it to hold your phone, a notepad, a pen, and any other things you will need to have close by.



Other items that may help:

- Shower sponge with a long handle
- Shoehorn with a long handle
- Walker or other assistive device, such as a cane
- Reacher to help you pick up things from the floor, put on your pants, and take off your socks
- Sock aid to help you put on your socks
- Handle bars in the bathroom to allow you to steady yourself

Avoiding Falls

Reduce tripping hazards in your home.

- Remove loose wires or cords from areas you walk through to get from one room to another.
- Make a path wide enough for a walker to fit through.
- Pick up throw rugs and tack down loose carpeting.
- Cover slippery surfaces with carpets, be sure they are firmly attached to the floor or have non-skid backs.
- Fix any uneven flooring in doorways. Use good lighting.
- Have night lights placed in hallways and rooms that can be dark.

Pets that are small or move around may cause you to trip. For the first few weeks you are home, consider having your pet stay elsewhere (with a friend, in a kennel, or in the yard).

DO NOT carry anything when you are walking around. You may need your hands to help you balance.

Bathroom Set-up

Raising the toilet seat height will keep you from bending your hip too much. You can do this by adding a seat cover, elevated toilet seat or a toilet safety frame. You can also use a commode chair instead of a toilet.

You may need to have safety bars in your bathroom. Grab bars should be secured vertically or horizontally to the wall, not diagonally.

- DO NOT use towel racks as grab bars. They cannot support your weight.
- You will need two grab bars. One helps you get in and out of the tub. The other helps you stand from a sitting position.

You can make several changes to protect yourself when you take a bath or shower:

- Put non-slip suction mats or rubber silicone decals in the tub to prevent falls.
- Use a non-skid bath mat outside the tub for firm footing.
- Keep the floor outside the tub or shower dry.
- Place soap and shampoo where you do not need to stand up, reach, or twist.

Sit on a bath or shower chair when taking a shower:

- Make sure it has rubber tips on the bottom.

Buy a seat without arms if it is placed in a bathtub.



Guidebook for Hips

Practice using a cane or walker. It is especially important to practice the correct ways to:

- Get in and out of the shower
- Use the shower chair
- Go up and down stairs
- Sit down to use the toilet and stand up after using the toilet



References:

Cabrera JA, Cabrera AL. Total hip replacement. In: Frontera, WR, Silver JK, Rizzo TD, eds. *Essentials of Physical Medicine and Rehabilitation*. 3rd ed. Philadelphia, PA: Elsevier Saunders; 2015: chap 61.

Niska JA, Petrigliano FA, McAllister DR. Anterior cruciate ligament injuries (Including Revision). In: Miller MD, Thompson SR, eds. *DeLee and Drez's Orthopaedic Sports Medicine*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2015: chap 98.

Weinlein JC. Fractures and dislocations of the hip In: Canale ST, Beaty JH, eds. *Campbell's Operative Orthopaedics*. 12th ed. Philadelphia, PA: Elsevier Mosby; 2012: chap 55.

Tone Up Before Hip Surgery

Start Preoperative Exercise

Many patients with arthritis of the hip avoid using their painful leg. Muscles become weaker, making recovery slower and more difficult. Beginning an exercise program before surgery can help make recovery faster and easier. To get the best benefit, start your exercises now.

Exercising Before Surgery

Consult your doctor before starting preoperative exercises. A number of exercises are listed below that your doctor may instruct you to start doing and continue until your surgery. Take 20 to 30 minutes, twice a day to do your exercises. Perform exercises on both legs. It is also important to strengthen your entire body, not just your legs before surgery. Strengthen your arms by doing chair push-ups because you will be relying on your arms when walking with the walker; getting in/out of bed and chairs; and on/off the toilet. Perform light endurance activities for your heart and lungs such as walking for 10 to 15 minutes each day.

Preoperative Hip Exercises

(Do not do any exercise that is too painful.)

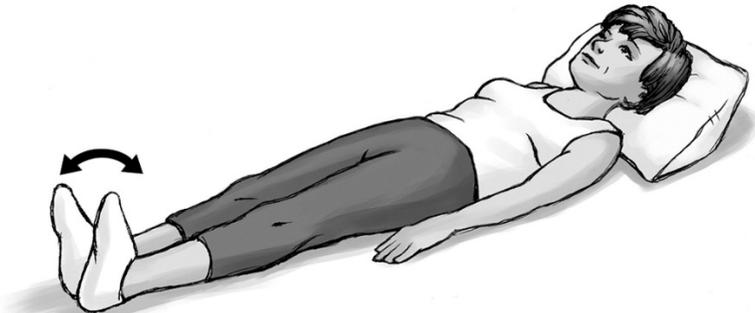
1. Ankle Pumps
2. Quad Sets
3. Gluteal Sets
4. Outward Heel Slides
5. Hip Flexion Heel Slides
6. Short Arc Quads
7. Straight Leg Raise
8. Heel Toe Raise Chair
9. Mini Squat
10. Armchair Pushups

*****These exercises are to be performed while seated in a chair or recliner, sitting on the sofa or when lying down in your bed. We do not expect you to get down on the floor to perform these exercises.*****

1. Ankle Pumps

Instructions:

Gently point toes up towards your nose and down towards the surface. Do both ankles at the same time or alternating feet. Perform slowly.
Perform 20 times.



2. Quad Sets

Instructions:

Lie on your back, press knees into mat by tightening muscles on the front of the thigh (quadriceps). Hold for a 5 count. Do NOT hold breath.
Perform 20 times.

Coach's Note: Look and feel for the muscle above the knee to contract. Done correctly, the heel should come slightly off the surface. Be sure patients are not holding their breath during this and all other exercises.

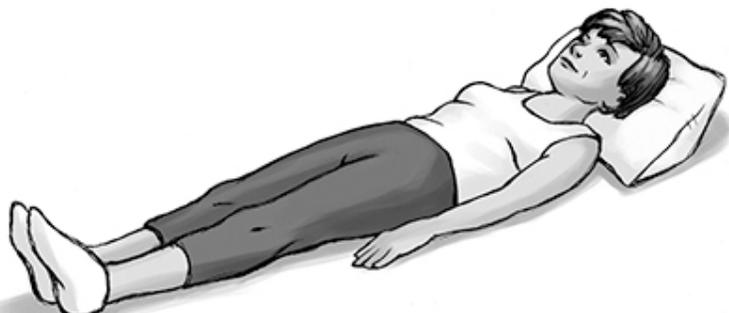


3. Gluteal Sets

Instructions:

Squeeze bottom together. Hold for a 5 count. Do NOT hold breath.
Perform 20 times.

Coach's Note: Patient can place hands on right and left gluteal (buttocks) area and feel for equal muscle contractions. Be sure patients are not holding their breath during this and all other exercises.



4. Outward Heel Slides

Instructions:

Lie on your back with toes pointing toward the ceiling and knees straight. Tighten quad muscles and slide leg out to side and back to starting position.

Perform 20 times.

Coach's Note: Some patients are given specific hip precautions after surgery. For example, some patients cannot cross the midline with their surgical leg. Be sure you are aware of what hip precautions you are to follow with this and any exercise.



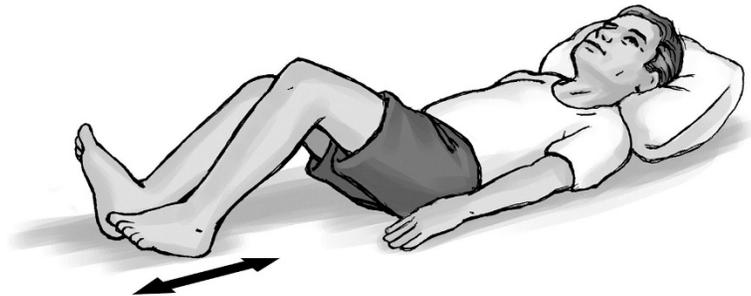
5. Hip Flexion Heel Slides

Instructions:

Lie on your back and slide heel up a flat surface bending knee. After surgery, your therapist may have you use a strap around foot to assist gaining knee bend.

Perform 20 times.

Coach's Note: Patient should actively pull the heel up. Some patients are given specific hip precautions after surgery. For example, some patients cannot raise their surgical leg past 90 degrees of hip flexion. Be sure you are aware of what hip precautions you are to follow with this and any exercise. Your physical therapist may instruct you in using a strap to assist with this movement.



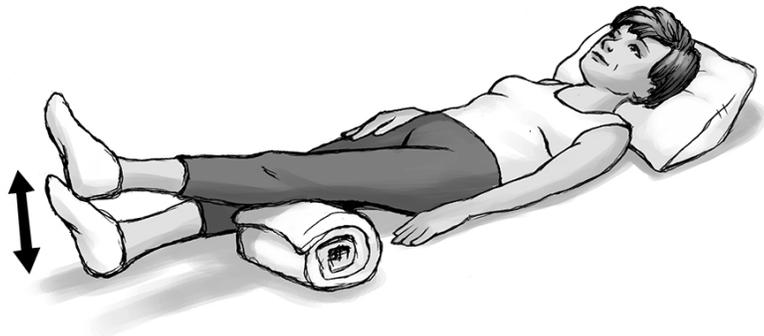
6. Short Arc Quads

Instructions:

Lie on your back and place a 6-8 inch rolled towel under knee. Lift foot from surface, straightening knee as far as possible. Do not raise thigh off rolled towel.

Perform 20 times.

Coach's Note: *Work for full extension (straightening) of the knee. Assist with band or hand if needed to get full terminal extension.*



7. Straight Leg Raise

Instructions:

Lie on your back with unaffected knee bent and foot flat, tighten quad on affected leg and lift leg 12 inches from surface. Keep knee straight and toes pointed toward your head.

Perform 20 times.

Coach's Note: *If able, the patient can add a small ankle weight to their leg to increase their strength prior to surgery.*



8. Heel Toe Raise Chair

Instructions:

Holding on to an immovable surface. Rise up on toes slowly for a 5 count. Come back to foot flat and lift toes from floor.

Coach's Note: *When lifting up, do not lean backward.*



9. Mini Squats

Instructions:

Stand, with feet shoulder width apart, and holding on to a stationary object. Keep heels on floor as you bend knees to slight squat. Make sure your knees do not go past your toes. Return to upright position tightening buttocks and quads. Keep body upright, heels on floor and do not squat past 90 degrees hip flexion.

Perform 20 times.

Coach's Note: Patient's knees should not move past their toes during this exercise.

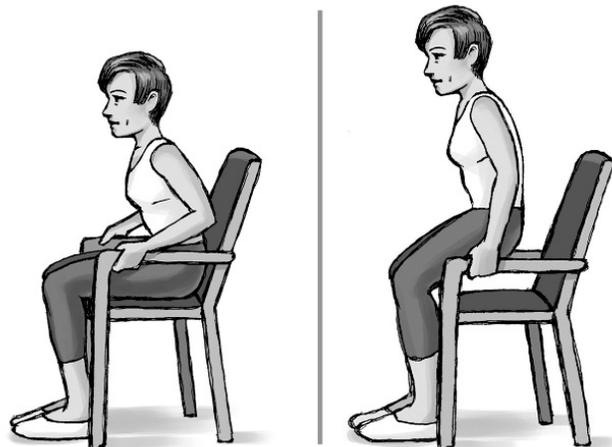


10. Armchair Push-ups

Instructions:

Sitting in sturdy armchair with feet flat on floor, scoot to front of seat and place hands on armrests. Straighten arms raising bottom up from seat as far as possible. Use legs as needed to lift. Progress to using only arms and unaffected leg to perform push-up. Do not hold breath or strain too hard.

Perform 20 times.



Plan For the Day Before Surgery

Learn what you need to do the day before surgery.

Find Out Your Arrival Time at the Hospital

You will receive a call the day before surgery (or Friday if surgery is Monday) and will be given instructions, what time your procedure is scheduled, what time to arrive at the hospital, and where to come the day of surgery.

Pack Your Bag - What to Bring to the Hospital

- Personal hygiene items such as your toothbrush, deodorant, and so on
- Loose fitting clothes (shorts, tops)
- Flat shoes (with closed toe and closed back) or tennis shoes
- Copy of Advance Medical Directives (if you have one)
- Insurance card, driver's license or photo I.D.
- CPAP or Bi-Pap machine
- Cell phone and charger



Special Instructions

- Do not bring valuables – no jewelry, valuables, credit cards or cash
- Do not bring medications
- Remove makeup before your procedure.
- Do not use deodorant, body lotion or essential oils after shower
- NO acrylic nails
- **NO knives, cigarettes, or vapes allowed at hospital leave at home**

Preparing Your Skin Before Surgery

Preparing or “prepping” skin before surgery can reduce the risk of infection at the surgical site. You can play an important part in reducing the risk of an infection at your surgical site by decreasing the number of germs on your skin prior to surgery.

PLEASE FOLLOW THESE INSTRUCTIONS:

- Use antibacterial soap for showering every day for 5 days and for 2 minutes on surgical site, before your surgery.
- Do NOT shave for 5 days prior to surgery on any area of the body, including the legs and underarms.
- Dr. Wan’s patients – Do NOT shave legs within 12 days of surgery.
- Do NOT use perfumes, powder or lotion on your skin for 24 hours prior to surgery.

SAGE PRODUCTS PATIENT PREOPERATIVE SKIN PREPARATION CLOTHS – “CHIN TO TOES” SKIN PREP

You will be provided with a package containing 3 packs of 2% chlorhexidine gluconate (CHG) cloths that look like baby wipes that are to be used the evening before surgery. An additional package will be given to you in pre-op on the day of surgery.



When should you NOT use these cloths?

- Have an allergy to chlorhexidine gluconate
- Currently have broken skin, rash, open wounds or burn
- Are receiving chemotherapy and/or radiation therapy

INSTRUCTIONS FOR HOME USE THE EVENING BEFORE SURGERY

1. Take an evening bath or shower and shampoo your hair.
2. Put on clean pajamas and underclothing.
3. Wait at least one hour, until skin is dry and cool before using the CHG cloths. This allows the pores on your skin to close decreasing irritation.
4. Wash your hands with warm soapy water or use hand sanitizer prior to using cloths.
5. Use one cloth to prepare each area of the body. Wipe each area thoroughly in a back and forth motion, but do not scrub. Use all 6 cloths in the packages following the order shown in steps 1 through 6 below.
6. Allow area to air dry for one minute. Do NOT rinse or towel off. It is normal for the skin to have a temporary “sticky” feel for a short time as it dries.
7. If you experience redness or itching, rinse the area with cool water.
8. Throw used cleaning cloths in the garbage. **Do not flush in the toilet.**
9. Do not apply lotion, moisturizer or make-up after preparing the skin.
10. Be sure to sleep on clean sheets.
11. **DO NOT SHOWER** or wash the morning of surgery. You may brush your teeth and wash your face.

12. Wear clean, freshly washed clothes to the hospital.

*******DO NOT USE THE CLOTHS ON THE FACE, EYES, EARS, OR GENITAL AREAS*******

USE ONE CLOTH TO PREPARE EACH AREA OF THE BODY IN THE FOLLOWING ORDER:

Cloth 1 – Wipe your **neck, chest and abdomen**.

Cloth 2 – Wipe **both arms**, starting with the shoulder and ending at the fingertips.
Be sure to thoroughly wipe the armpit areas.

Cloth 3 – Wipe **both legs**, starting at the thigh and ending at the toes. Be sure to thoroughly wipe behind your knees.

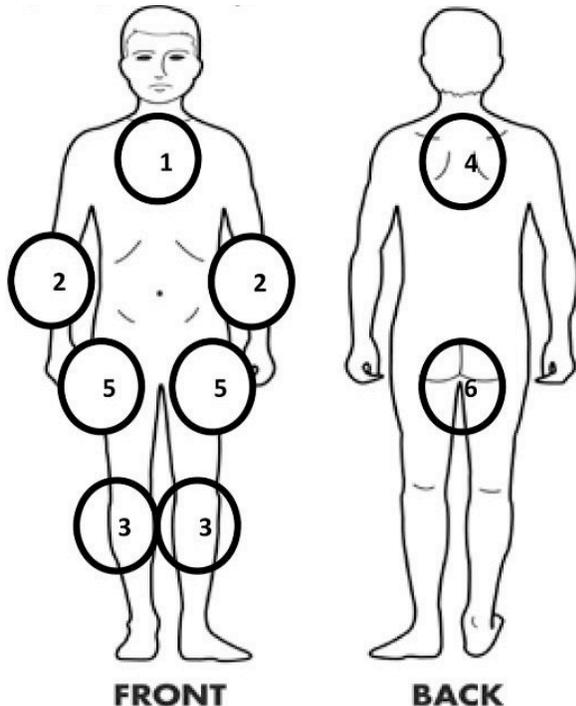
Cloth 4 – Wipe your **back** starting at the base of your neck to your waist line. Help may be required.

Cloth 5 – Wipe your **right and left hip** followed by your **groin**. Be sure to wipe folds in the groin area.

LADIES – This is an external wipe only. Do NOT wipe internally or in between the labia.

MEN – Avoid wiping the urethral area (tip of penis).

Cloth 6 - Wipe the outer **buttocks** – not the rectal area.



Skin may feel sticky for a few minutes. Do NOT wipe off.
Allow skin to air dry.

Remember: NOTHING to eat or drink after midnight unless otherwise instructed.

Plan For Leaving the Hospital

Your care team will work with you and your family to develop a discharge plan that meets your needs.

You should expect to go directly home to recover in the privacy and comfort of your own surroundings.

Going Directly Home

- Have someone pick you up.
- Receive discharge instructions concerning medications, physical therapy, activity, etc.
- Confirm equipment delivery; a member of your care team will make arrangements.
- Most patients going home will begin therapy at an outpatient PT facility.
- If Home Health services are needed, a member of your care team will make arrangements for you.



Going to a Nursing Home

- Someone needs to drive you or you can ask a member of your care team to assist with transportation. You may incur a fee from the transportation company if not covered by insurance.
- Transfer papers will be completed by nursing staff.
- Your doctor or a doctor from the nursing home or rehab center will care for you in consultation with your surgeon.
- Nursing home or rehab center stays must be approved by your insurance company. In order to transfer to one of these settings, you must meet admission criteria established by the facility.

IMPORTANT NOTE:

If the nursing home or rehab stay is not approved, you may still choose to go there; however, you will need to pay privately.



Section Two:

At the Hospital

Anesthesia Options

Anesthesiologist/Nurse Anesthetist

The Operating Room & Post Anesthesia Care Unit (PACU) at AGH are staffed by board certified and board eligible Anesthesiologists and/or Certified Registered Nurse Anesthetists (CRNA's).

Types of Anesthesia

- **General anesthesia** - produces temporary unconsciousness.
- **Regional anesthesia** - involves the injection of a local anesthetic providing numbness, loss of pain, or loss of sensation to the body.

Side Effects

Your anesthesiologist/nurse anesthetist will discuss the risks and benefits associated with each anesthetic option, as well as complications or side effects that can occur.

You will be given medications to treat nausea and vomiting which sometimes occurs with the anesthesia. The amount of discomfort you experience will depend on several factors, especially the type of surgery. Your discomfort should be minimal, but do not expect to be totally pain free. Staff will teach you the pain scale to assess your pain level.

Hospital Care - What to Expect

Day of Surgery - Arrival to the Hospital

- Check in at the Reception desk in the surgical waiting area.
- A Pre-Op nurse will come out to the waiting area and take you back to Pre-Op.

Pre-Surgery Area

- Your surgeon will visit with you.
- You will meet your anesthesiologist and/or certified registered nurse anesthetist (CRNA).
- Your nurse will assist in your preparation for surgery – this may include IV start(s), medication administration and etc..

During Surgery

- The Anesthesiologist and/or CRNA will manage vital signs – heart rate and rhythm, blood pressure, body temperature and breathing.

After Surgery

- You will be taken to the Post Anesthesia Care Unit (PACU). Your pain level will be assessed, vital signs monitored and an x-ray of your new joint may be taken.
- Depending on the type of anesthesia used, you may experience blurred vision, a dry mouth and chills.
- You will then be taken to your room located in the Bone & Joint Destination Center on the MedSurg unit.
- Expect to have a well padded ABD dressing over your surgical site.
- Expect to have a foley catheter.
- You may have a Hemovac drain
- Remember to place wrap with ice packs over surgical site for 20-30 minutes every hour.
- At some point on this day, you will most likely be assisted out of bed to walk or sit in the recliner. Mobility helps to relieve discomfort and prevent blood clots from forming in your legs.
- Begin using your Incentive Spirometer and do the deep breathing exercises you learned.
- Remember, Bone & Joint patients experience “Room Service” - you have to call and order your meals and snacks.
- Hip Precautions – Do NOT bend greater than 90 degrees, do not cross your legs and no twisting.

Post Op Day One

- Expect to be out of bed, bathed, dressed in your own clothes and seated in the recliner. Shorts & tops are best, long pants may be restrictive
- Your surgeon and/or their Certified Nurse Practitioner (CNP) or Physician's Assistant (PA) will visit.
- If you have a foley catheter &/or hemovac drain, they will most likely be discontinued today.
- Your surgical dressing will be removed and an Aquacel dressing applied over the surgical incision.
- Expect to have TED hose/compression hose on both legs.
- Remember to call and order your meals from the Menu provided.
- The physical therapist will get you walking with a walker or crutches.
- Continue to use your Incentive Spirometer.
- Continue to place hip wrap with ice packs over surgical site 20-30 minutes every hour.
- You will be taking oral pain medication. Be sure to communicate how you feel with the team.
- Occupational therapy may also work with you.
- For patients being discharged today, you will walk in the halls and if needed will learn to climb up/down stairs.
- Your coach is encouraged to be present.
- Most patients will be discharged today.

Post Op Day Two

- Expect to be out of bed, bathed, dressed in your own clothes and seated in the recliner. Shorts & tops are best, long pants may be restrictive
- Day will start with a morning walk and/or up in the recliner for breakfast.
- Remember to call and order your meals from the Menu provided.
- Continue to use your Incentive Spirometer.
- Continue to place hip wrap with ice packs over surgical site 20-30 minutes every hour.
- Physical Therapy will continue to assist you with walking and if needed will help you learn to climb up/down stairs.
- Occupational therapy may visit, if needed.
- Expect to be discharged today.



Ways to Manage Pain

Pain control during and after surgery is likely to be one of the most common concerns of joint replacement patients. With today's medications and pain management techniques, you should remain relatively comfortable throughout your recovery.

Your doctor will choose the method right for you based upon your medical history, the amount of pain you are having and your phase of recovery.

Along with your surgeon, anesthesiologist or nurse anesthetist and your nursing staff, you are a key member of your pain management team. Be sure to review "Understanding the Pain Scale" and the information that follows. Regardless of the pain management protocol being used, it is important for you to communicate with your care team if the pain medication is not sufficient, if you are feeling nauseous, or if you are not as alert as you feel you should be. Adjustments can be made to make your pain management program as effective as possible.

Prevent the Pain Cycle

Pain has a cycle. It begins and increases until medication interrupts it. The aim of good pain control is to stop pain before it becomes intolerable. It's especially important to request additional medication 30-45 minutes prior to an exercise session so that you can achieve your goals more comfortably.



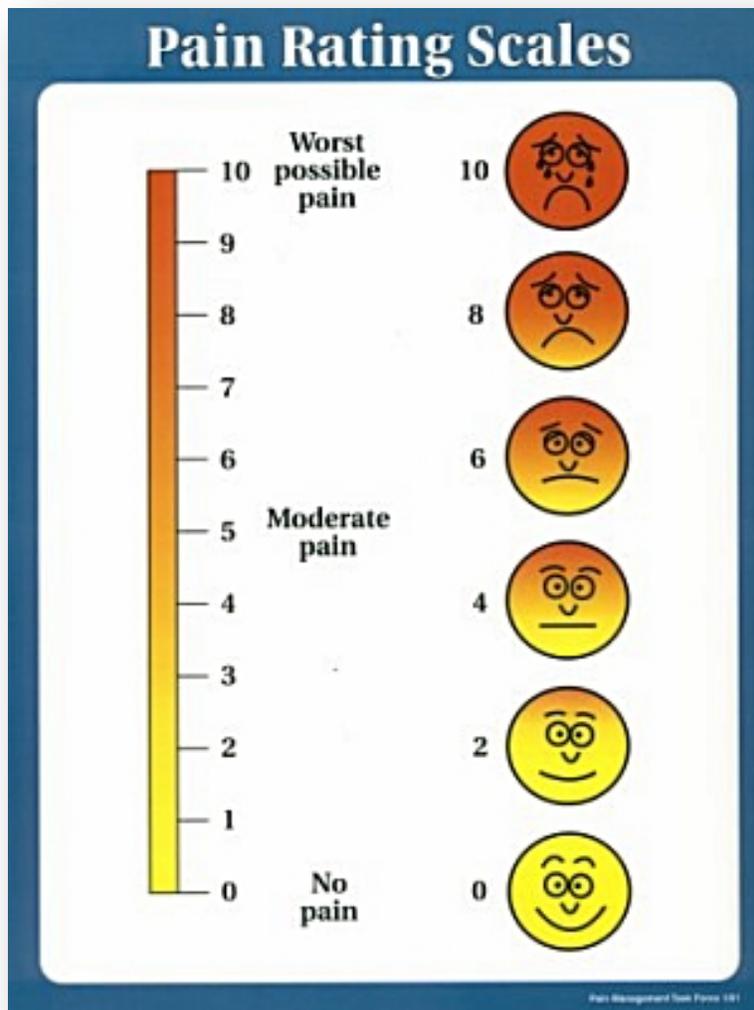
Other Methods to Decrease Pain

It is important to try to relax after your surgery and one way that may help is to listen to your favorite relaxing music. Frequent position changes and applying ice or cold for 15-20 minutes at a time on a regular schedule can also help in minimizing your discomfort.

Using the Pain Scale

Using a number to rate your pain level can help your care team understand and help manage it.

Your physicians, nurses and therapists will be frequently asking you for your pain level and with good communication, the team can make adjustments to make you more comfortable.



Mobility Instructions

This is a good time to review some of the things you learned during your hospital stay.

Walking and Using Stairs

Using Your Walker

- Move your walker forward.
- Step forward placing the foot of your surgical leg in the middle of the walker area.
- Step forward with your non-surgical leg. Do NOT step past the front wheels or feet of the walker.



Reminders:

- Take small steps. Keep the walker in contact with the floor, pushing it forward like a shopping cart.
- If using a rolling walker, advance from basic technique to a normal walking pattern. Holding onto the walker, step forward with your surgical leg, pushing the walker as you go. Try to alternate with an equal step forward using your non-surgical leg. Continue to push your walker forward. When you first start, this may not be possible, but you will find this gets easier. Make sure that your foot does not go past the front of the walker when taking a step. Ideally, the foot should land in the center of the walker.

Using Stairs

A simple way to remember the correct sequence for stair climbing is “up with the good, down with the bad.”

What this means is that when you are climbing up the stairs, you lead with your unaffected leg, followed by the operative leg. To descend, begin down with your operative leg, followed by the unaffected leg. And always hold on to the railing!

Getting In and Out of a Chair

Standing up from a chair:

Do NOT pull up on your walker to stand! Choose to sit in chairs with armrests.

1. Extended your surgical leg so your knee is lower than your hips.
2. Scoot your hips to the front edge of the chair.
3. Push up with both hands on the armrests. If a chair doesn't have an armrest, place one hand on the walker while pushing off the side of chair with the other hand. Balance yourself before grabbing for the walker.



Sitting down:

1. Back up to center of chair until you feel the chair on back of your legs.
2. Slide the foot of your surgical leg out, keeping your stronger leg close to chair for sitting.
3. Reach back for the armrests one at a time.
4. Slowly lower your body to the chair, keeping your surgical leg forward as you sit.



Getting In and Out of Bed

Getting into bed:

1. Back up to the bed until you feel it on the back of your legs (you need to be midway between the foot and the head of bed).
2. Reaching back with both hands, sit down on the edge of the bed and scoot back towards the center of the mattress. (Silk pajama bottoms, satin sheets, or sitting on plastic bag may make it easier.)
3. Move your walker out of way, but keep it within reach.
4. Scoot your hips around so you are facing the foot of the bed.
5. Lift your leg into bed while scooting around (if this is your surgical leg, you may use your other leg, a cane, rolled bed sheet, belt, or elastic band to assist with lifting the leg into bed).
6. Keep scooting and lift your other leg into bed.
7. Scoot hips toward center of bed.



Back up until you feel your leg on the bed.



Stay in a sitting position.



Scoot back on the bed lifting your leg onto the bed.

Getting out of bed:

1. Scoot your hips to the edge of the bed.
2. Sit up while lowering your non-surgical leg to the floor.
3. If necessary, use a leg-lifter to lower your surgical leg to the floor.
4. Scoot to the edge of the bed.
5. Use both hands to push off the bed. If your bed is low, place one hand in the center of the walker while pushing off the bed with your other hand.
6. Balance yourself before reaching for your walker.

Lying in bed:



Keep a pillow between your legs when lying on your back. Position your leg so that your toes are pointing to the ceiling – not inward or outward.



To roll from your back to your side, bend your knees slightly, and then place a pillow between your legs so that your surgical leg does not cross midline. Then simply roll onto your side.

Section Three:

At Home After Surgery

Stay Positive!

We hope that you find each day easier than the last, but it is helpful to realize that recovering from any surgery can be a little like “two steps forward and one step back.”



On those days when you feel things aren't coming along as well as you'd like, remember to concentrate on what IS improving rather than what symptoms remain. By focusing on the progress you have already made and combining it with a constant effort to improve, you can maintain the positive attitude so essential for the best possible outcome!

Home Care Instructions/Transitioning Home

How to care for yourself at home after surgery.

Things you need to know for safety, recovery and comfort as you return home.

Be Comfortable

- Take your pain medicine at least 30 minutes before physical therapy or exercise sessions.
- Taper yourself off prescription medication to non-prescription pain reliever.
- Change position frequently and ambulate (every 45 minutes - 1 hour) to help prevent stiffness.
- Use ice for pain control 20-30 minutes at a time on a regular schedule. Use before and after your exercise or therapy sessions.
- Avoid napping during the day to help you sleep better at night.
- Continue to wear your TED hose/compression stockings for 30 days (remove for 1-2 hours per day) or as directed by your physician.
- **NO** bathing in bathtub, swimming or sitting in hot tubs until approved by your surgeon.



Body Changes

- Your appetite may be poor initially, but your desire for solid food will return.
- Drink plenty of fluids.
- You may have difficulty sleeping for a short time after you return home – this is normal.
- Your energy level may be low, and this may last for up to four weeks.
- Pain medication that contains narcotics may make you constipated. Use stool softeners or laxatives, if necessary.

Driving

- **NO** driving until you have been cleared by your Orthopedic Surgeon.

Sleep Problems

Having trouble sleeping since your surgery? You're certainly not alone. Many people complain of difficulty sleeping from the lingering effects of anesthesia, the body's stress response to the surgery, as well as changes in your daily routine. Here are a few tips for a better night's sleep:

- Avoid day-time naps, try to remain active, and exercise throughout the day.
- Avoid caffeine in the evenings (coffee, tea, chocolate, and colas).
- Listen to relaxing music in the evenings.
- Take a nice warm shower, if permitted.

Your normal sleeping patterns should return within a few weeks, but please notify your doctor if:

- You notice changes in your behavior.
- A lack of sleep is causing problems in your life.
- Normal sleeping patterns do not return within two to three weeks.

Preventing Constipation

Having joint replacement surgery, or any surgery for that matter, can lead to constipation. Changes in daily routine, short-term reductions in appetite and mobility, as well as narcotic pain medication can contribute to an increased risk for constipation. The best approach is to take measures to prevent it before it becomes a problem:

- Eat fiber rich foods like whole grains, fresh fruits and vegetables to help keep your system moving. Consider a fiber additive.
- Drink plenty of water. This adds fluid to the colon and bulk to the stools, making bowel movements easier to pass. Stool softeners may also be helpful.
- Avoid caffeine – coffee and colas. Caffeine flushes your colon of fluids and causes dehydration making stools dryer and harder to pass.
- Avoid alcohol – it also causes dehydration.
- Keep up with your exercises – daily walks help to keep things moving.
- Wean yourself from narcotic pain medications as soon as possible.



In the event that you do become constipated, start with a gentle laxative prior to trying a more aggressive measure, such as a suppository or an enema.

Appetite Changes

After surgery, it's not unusual for your appetite to "disappear" for a while. Your favorite foods may not taste as good as usual, or you are just not hungry. Here are a few suggestions to try until your appetite returns:



- Eat 5-6 small meals a day. Rather than 3 larger meals, try eating smaller meals and snacks to make sure you get enough nutrition. Good snacks include cheese and crackers, glass of milk, cottage cheese, peanut butter on crackers or celery, or some of the protein shakes that are available.
- Some foods that may taste good during your recovery may not be the most nutritious. Try replacing them with foods that are higher in protein, vitamins and minerals.

Rather than	Eat this
Broth	Vegetable beef soup
Plain Jell-O	Fruited Jell-O
Carbonated beverages	Milk, fruit smoothie, protein shake
Italian ice/popsicles	Frozen yogurt, frozen fruit bar

- If you are experiencing taste changes, try a variety of foods to find out what works best for you. For example, you may find that cold foods with little odor work best. Cottage cheese, cereals, macaroni and cheese and/or chicken salad may be tastier than beef.

Symptoms to Watch For After Surgery

Infection

Signs

- Increased swelling and redness at your incision site
- Change in the color, amount, and odor of drainage
- Increased pain at your surgery site
- Fever greater than 101.0 degrees

Prevention

- Take proper care of your incision. Wash your hands frequently, especially after using the bathroom and after contact with pets.



Blood Clots

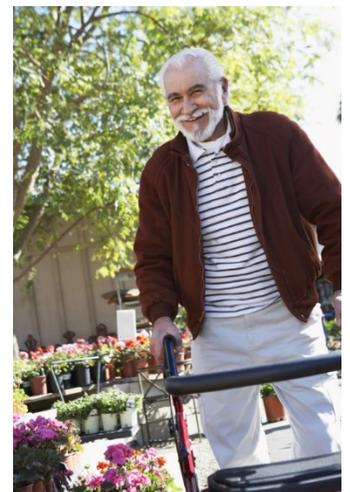
Surgery may cause the blood to slow and clot in veins of the legs. If a clot occurs, you may need to be admitted to the hospital to receive blood thinning medication.

Signs

- Swelling in your thigh, calf, or ankle that does not go down with elevation.
- Pain, heat, and tenderness in your calf, back of your knee, or groin area.
- Blood clots can form in either of your legs.

Prevention

- Adhere to your daily exercise routine and perform ankle pumps.
- Walk several times a day.
- Wear compression stockings, as directed by your doctor, remove daily to inspect your skin.
- Take an anticoagulant or blood thinning medication as directed by your doctor.



Pulmonary Embolism

An unrecognized blood clot could break away from the vein and travel to the lungs. This is an emergency — CALL 911.



Signs

- Sudden chest pain
- Difficult and/or rapid breathing
- Shortness of breath
- Sweating
- Confusion

Preventing Blood Clots – Working With Your Blood Thinner

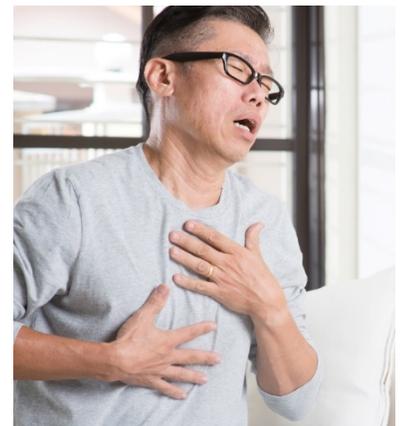
Blood clots after surgery can cause serious problems. However, there are steps that can be taken to help prevent them, as mentioned on the previous page.

There are many different types of blood thinning medications. Some are oral (by mouth) while others require injections. Your doctor will select the type of medication that is best for you.

When taken according to your surgeon's instructions, blood thinners are generally safe and effective. However, in some cases, there may be warning signs that prompt treatment is needed.

If you fall, have a traumatic injury, or if you experience any of the following, call your surgeon immediately. **DO NOT WAIT AND HOPE THE SYMPTOMS GO AWAY.**

- Bleeding or oozing from the surgical wound
- Nosebleeds
- Blood in your urine
- Coughing or vomiting blood
- Excessive bleeding when brushing your teeth
- Spontaneous bruising (a bruise not caused by a blow or any apparent reason)
- Dizziness, numbness or tingling
- Rapid or unusual heartbeat
- Chest Pain and/or Shortness of Breath



Report any anticoagulant-related side effects such as large amount of bleeding and/or bruising, immediately!

Things to Avoid While on Blood Thinners

Certain medications, foods and activities can interfere with blood thinners. It is important to take proper steps to avoid any potential complications.

- Check with your surgeon before taking any over-the-counter drugs like aspirin, aspirin containing compounds, non-steroidal medications and even vitamins, except those prescribed when leaving the hospital. Your surgeon will provide additional information based on the specific blood thinner you will be taking.
- Be consistent in the amount of dark green leafy vegetables you eat each day – they are high in Vitamin K and this can counteract the action of some blood thinners.
- Avoid drinking alcohol while on blood thinners.
- Postpone any procedures that may cause bleeding such as dental work, minor or major surgical procedures etc. If it is not possible to postpone, be sure that the dentist or doctor is aware of the fact that you are taking blood thinners and that you have had a recent joint replacement.
- Avoid any activity that may result in injury such as hobbies that use power-tools or sharp instruments.



Safety Tips and Fall Prevention

- Pick up throw rugs and tack down loose carpeting.
- Cover slippery surfaces with carpets, be sure they are firmly attached to the floor or have non-skid backs.
- Be aware of floor hazards such as pets, small objects, or uneven surfaces.
- Provide good lighting throughout. Install nightlights in bathrooms, bedrooms, and hallways.
- Keep extension cords and telephone cords out of pathways. Do NOT run wires under rugs; this is a fire hazard.
- Do NOT wear open-toe slippers or shoes without backs. They do not provide adequate support and can lead to slips and falls.
- Sit in chairs with arms to make it easier to get up.
- Rise slowly from either sitting or lying position to avoid getting light-headed.
- Do not lift heavy objects for first three months and then only with surgeon's permission.

Protecting Your Joints Around the House

Around the house: saving energy and protecting your joints

- Do NOT get on your knees to scrub floors or your bathtub. Use a mop and long-handled brushes.
- Plan ahead! Gather all cooking supplies at one time. Sit to prepare your meal.
- Place frequently-used cooking supplies and utensils where they can be reached without much bending or stretching.
- To provide better working height, use a high stool or put cushions on a chair when preparing meals.



Hip Precautions

Posterior Approach Hip Precautions

Care must be taken to prevent the new hip from coming out of socket or dislocating from pelvis. Simple precautions will keep the risk at a minimum.

- Do not cross legs.
- Do not bend at waist beyond 90 degrees.
- Do not lift knees higher than hips.
- Do not twist over surgical leg – pick feet up and do step turns.
- Do not turn feet inward or outward – keep toes pointing forward in line with nose.
- When lying down, do not bend forward to pull blankets from around feet.
- Avoid low toilets or chairs that would cause bend at waist beyond 90 degrees.
- Do not bend over to pick things up – use a reacher.



DO NOT cross legs



DO NOT bend past 90 degrees



DO NOT twist

Equipment to Help With Dressing

Using a reacher:

A reacher or dressing stick can help remove pants from your feet and off the floor.

Putting on pants and underwear:

1. Sit down and put your surgical leg in first, followed by your non-surgical leg. Use a reacher or dressing stick to guide your waistband over your foot.
2. Pull your pants up over your knees.
3. Stand with the walker in front to pull your pants up.



Taking off pants and underwear:

1. Back up to a chair or bed.
2. Unfasten your pants and let them drop to the floor. Push your underwear down to your knees.
3. Lower yourself down, keeping your surgical leg out straight. Take your non-surgical leg out first followed by your surgical leg.

Using a sock aid:

1. Slide your sock onto the sock aid.
2. Hold the cord and drop the sock aid in front of your foot. This is easier to do if your knee is bent.
3. Slip your foot into the sock aid.
4. Straighten your knee, point your toe, and pull the sock on. Keep pulling until the sock aid pulls itself out.



Using a long-handled shoehorn:

1. Use your reacher, dressing stick, or long-handled shoehorn to slide your shoe in front of your foot.
2. Place the shoehorn inside your shoe and against the back of your heel.
3. Lean back as you lift your leg and place your toes into the shoe.
4. Step down into the shoe, sliding your heel down the shoehorn.

This can be performed sitting or standing. Wear sturdy slip-on shoes or shoes with Velcro closures or elastic shoelaces. Do NOT wear high-heeled shoes or shoes without backs.

Getting In and Out of the Car

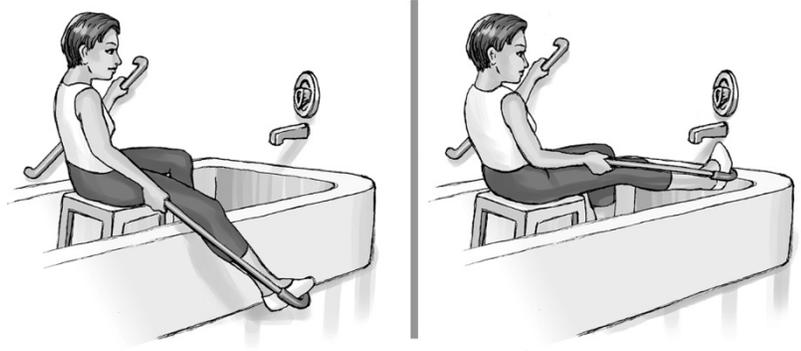
1. Move your car seat all the way back and recline the seat back to allow for adequate room to get in and out, but remember to always have it upright for travel.
2. Back up to the car until you feel it touch back of your leg.
3. Hold on to the car seat or dashboard and slide your surgical foot out straight. Watch your head as you sit down. Slowly lower yourself into the car seat.
4. Lean back as you lift your surgical leg into the car. You may find it helpful to use a cane, leg lifter, or other device to assist.



Bathing Tips

Getting into the bathtub (using a bath seat)

1. Place the bath seat in tub facing the faucet.
2. Back up to tub until you feel it at back of your knees. Make sure you are in line with the bath seat.
3. Reach back with one hand for the bath seat. Keep other hand in center of walker.
4. Slowly lower yourself onto the bath seat, keeping your surgical leg out straight.
5. Move walker out of the way, but within reach.
6. Lift your legs over edge of tub, using a leg lifter for surgical leg, if necessary. Hold onto the shower seat or railing.



Getting out of the bathtub (using a bath seat)

1. Lift your legs over outside of the tub.
2. Scoot to edge of the bath seat.
3. Push up with one hand on the back of bath seat while holding on to center of walker with your other hand.
4. Balance yourself before grabbing the walker.

Tips

1. Although bath seats, grab bars, long-handled bath brushes, and hand-held showers make bathing easier and safer, they are typically not covered by insurance.
2. Use rubber mat or non-skid adhesive on bottom of tub or shower.
3. To keep soap within reach, make soap-on-a-rope by placing bar of soap in toe of old pair of pantyhose and attach it to bath seat.

Hip Recovery Goals: Weeks 1 - 2

Now that you are one to two weeks after your surgery, let's do a quick check up on your status. Our goal is for most patients to go directly home after a short stay in the hospital, but some patients may need to go to a nursing home or rehabilitation center for a short stay before this is possible. Most patients at this phase of their recovery should be able to:

- Continue with a walker unless you are otherwise instructed.
- Walk at least 300 feet with a walker or support.
- Climb and descend a small flight of stairs with a handrail, once a day.
- Sponge bathe or shower, when approved by surgeon, and get dressed.
- Gradually resume simple homemaking tasks.
- Do 20 minutes of your home exercises twice a day.

Remember, all patients recover at different speeds, so don't be discouraged if you feel a little "behind" in the process. If you feel that you are seriously behind, or are experiencing other problems, don't hesitate to contact your physician with your concerns.

Continue Your Hip Exercises

Exercise is important to help you achieve the best results from your hip replacement. You will already have learned many of these exercises prior to your surgery or while you were in the hospital. These basic exercises can be done at home and will also be part of your recovery exercise program.

1. Ankle Pumps
2. Quad Sets
3. Gluteal Sets
4. Outward Heel Slides
5. Hip Flexion Heel Slides
6. Short Arc Quads
7. Straight Leg Raise
8. Heel Toe Raise Chair
9. Mini Squats
10. Armchair Pushups

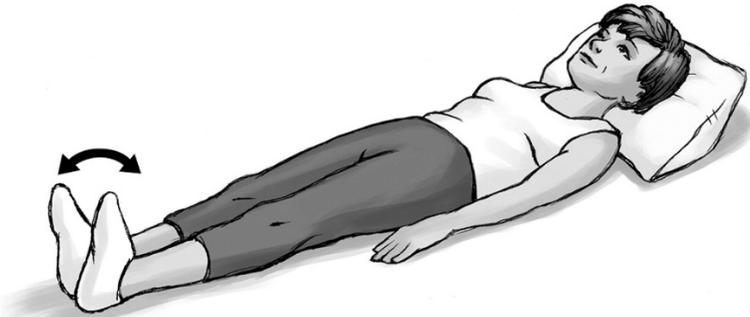
*****These exercises are to be performed while seated in a chair or recliner, sitting on the sofa or when lying down in your bed. We do not expect you to get down on the floor to perform these exercises. *****

1. Ankle Pumps

Instructions:

Gently point toes up towards your nose and down towards the surface. Do both ankles at the same time or alternating feet. Perform slowly.

Perform 20 times.



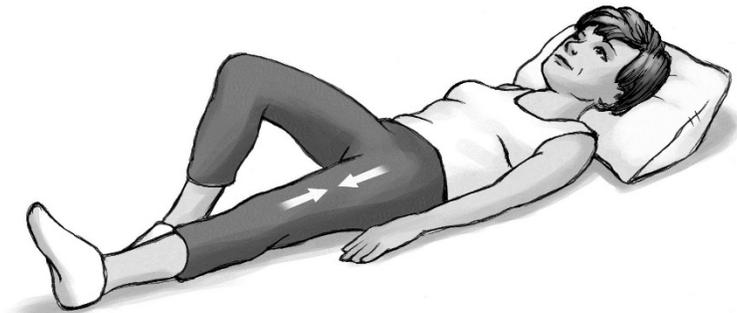
2. Quad Sets

Instructions:

Lie on your back, press knees into mat by tightening muscles on the front of the thigh (quadriceps). Hold for a 5 count. Do NOT hold breath.

Perform 20 times.

Coach's Note: Look and feel for the muscle above the knee to contract. Done correctly, the heel should come slightly off the surface. Be sure patients are not holding their breath during this and all other exercises.



3. Gluteal Sets

Instructions:

Squeeze bottom together. Hold for a 5 count. Do NOT hold breath.

Perform 20 times.

Coach's Note: Patient can place hands on right and left gluteal (buttocks) area and feel for equal muscle contractions. Be sure patients are not holding their breath during this and all other exercises.



4. Outward Heel Slides

Instructions:

Lie on your back with toes pointing toward the ceiling and knees straight. Tighten quad muscles and slide leg out to side and back to starting position.

Perform 20 times.

Coach's Note: Some patients are given specific hip precautions after surgery. For example, some patients cannot cross the midline with their surgical leg. Be sure you are aware of what hip precautions you are to follow with this and any exercise.



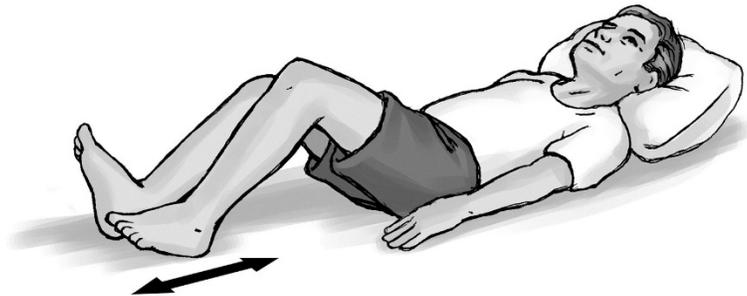
5. Hip Flexion Heel Slides

Instructions:

Lie on your back and slide heel up a flat surface bending knee. Your therapist may have you use a strap around foot to assist gaining knee bend.

Perform 20 times.

Coach's Note: Patient should actively pull the heel up. Some patients are given specific hip precautions after surgery. For example, some patients cannot raise their surgical leg past 90 degrees of hip flexion. Be sure you are aware of what hip precautions you are to follow with this and any exercise. Your physical therapist may instruct you in using a strap to assist with this movement.



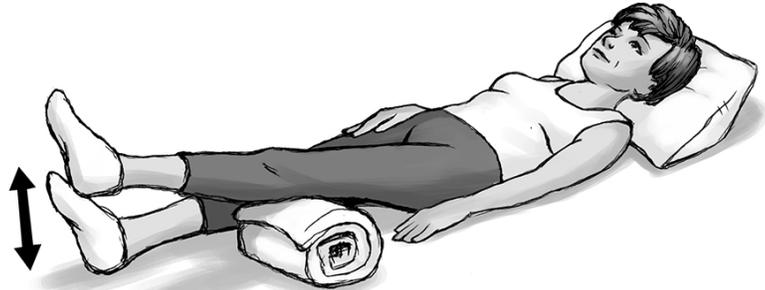
6. Short Arc Quads

Instructions:

Lie on your back and place a 6-8 inch rolled towel under knee. Lift foot from surface, straightening knee as far as possible. Do not raise thigh off rolled towel.

Perform 20 times.

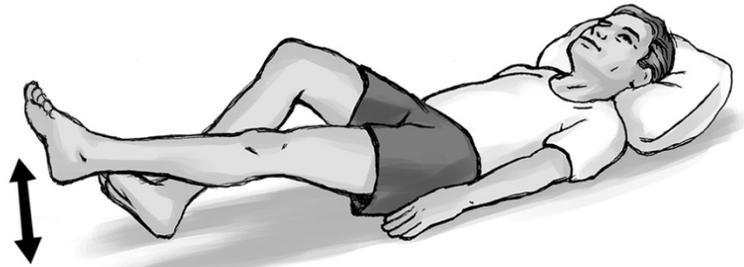
Coach's Note: *Work for full extension (straightening) of the knee. Assist with band or hand if needed to get full terminal extension.*



7. Straight Leg Raise

Instructions:

Lie on your back with unaffected knee bent and foot flat, tighten quad on affected leg and lift leg 12 inches from surface. Keep knee straight and toes pointed toward your head. **Perform 20 times.**



8. Heel Toe Raise Chair

Instructions:

Holding on to an immovable surface. Rise up on toes slowly for a 5 count. Come back to foot flat and lift toes from floor.

Coach's Note: *When lifting up, do not lean backward.*



9. Mini Squats

Instructions:

Stand, with feet shoulder width apart, and holding on to a stationary object. Keep heels on floor as you bend knees to slight squat. Make sure your knees do not go past your toes. Return to upright position tightening buttocks and quads. Keep body upright, heels on floor and do not squat past 90 degrees hip flexion.

Perform 20 times.

Coach's Note: Patient's knees should not move past their toes during this exercise.

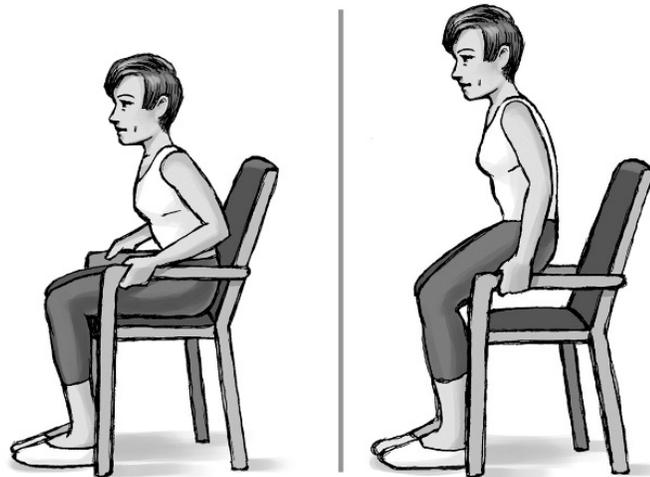


10. Armchair Push-ups

Instructions:

Sitting in sturdy armchair with feet flat on floor, scoot to front of seat and place hands on armrests. Straighten arms raising bottom up from seat as far as possible. Use legs as needed to lift. Progress to using only arms and unaffected leg to perform push-up. Do not hold breath or strain too hard.

Perform 20 times.



Hip Recovery Goals: Weeks 2 - 4

Congratulations! You are now almost one month after your surgery; hopefully you are making good progress at keeping up your home exercise program and achieving your recovery goals. This is very important in helping you gain independence and ensuring the best possible results. Most patients at this phase of their recovery:

- Have been able to achieve most/all of their 1 - 2 week recovery goals.
- Advance from the walker to a cane, as instructed by your Physical Therapist.
- Are able to walk at least one-quarter mile.
- Climb and descend a flight of stairs twice a day.
- Shower and dress.
- Resume homemaking tasks.
- Do 20 minutes of home exercises twice a day.
- If your physician has approved, you may begin driving, if your “left” hip had surgery.

Remember, all patients recover at different speeds, so don't be discouraged if you feel a little “behind” in the process. If you feel that you are seriously behind, or are experiencing other problems, don't hesitate to contact your physician with your concerns.

Advanced Postoperative Hip Exercises

As you progress with your recovery, more advanced exercises may be added to your routine. Your therapist or physician will advise you when you are ready.

1. **Bridge Exercise**
2. **Straight Leg Raise**
3. **Straight Leg Raise Hips Prone**
4. **Quad Stretch**
5. **Heel Toe Raise Chair**
6. **Mini Squats**
7. **Hip Flexor Stretch**
8. **Wall Slide**

Bridge Exercise

Instructions:

Lie on your back with knees bent and feet flat on surface; push down on feet as you tighten buttocks and hamstring muscles and lift hips from surface. Concentrate on pushing equally through both feet. Hold for 5 count then return to start position.

Perform 20 times.

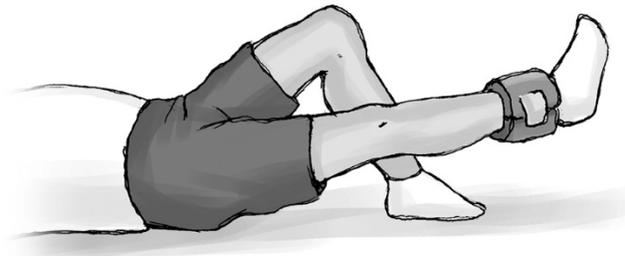


2. Straight Leg Raise

Instructions:

Lie on your back with unaffected knee bent and foot flat, tighten quad on affected leg and lift leg 12 inches from surface. Keep knee straight and toes pointed toward your head. **Perform 20 times.**

Coach's Note: Be sure that the patient is aware of their hip precautions. After surgery, many patients will not be able to lift their hip greater than 90 degrees. If able, the patient can add a small ankle weight to their leg to progressively increase their strength.



3. Straight Leg Raise Hips Prone

Instructions:

Lie on your stomach and lift your surgical leg toward the ceiling then slowly lower your leg to the starting position.

Perform 20 times.

Coach's Note: Be sure the patient is aware of any hip precautions. If able, the patient can add a small ankle weight to their leg to progressively increase their strength.

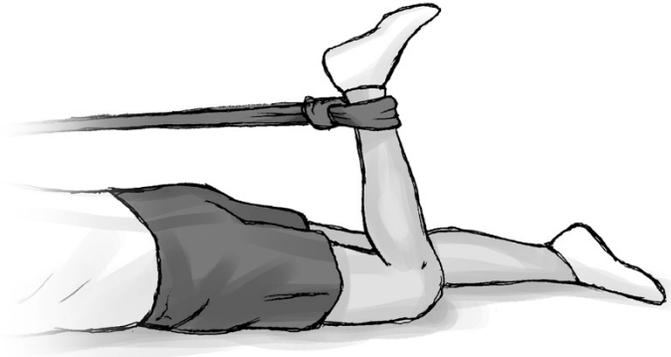


4. Quad Stretch Hips

Instructions:

Lie on your stomach. Bend up surgical knee, raising your foot from the bed as far up toward your buttocks as you can. If able, place a folded bed sheet or exercise band around your ankle and pull your foot toward your bottom until you feel a stretch. Hold for 20- 30 seconds. Lower foot back down to the bed. **Repeat 5 times.**

Coach's Note: Be sure the thigh stays flat on the bed or floor during this exercise.



5. Heel Toe Raise Chair Hips

Instructions:

Stand, with a firm hold on to a stationary object. Rise up on toes then back on heels. Stand as straight as possible. **Perform 20 times.**



6. Mini Squats Hips

Instructions:

Stand, with feet shoulder width apart, and holding on to a stationary object. Keep heels on floor as you bend knees to slight squat. Make sure your knees do not go past your toes. Return to upright position tightening buttocks and quads. Keep body upright, heels on floor and do not squat past 90 degrees hip flexion.

Perform 20 times.

Coach's Note: *Patient's knees should not move past their toes during this exercise.*



7. Hip Flexor Stretch

Instructions:

Stand up straight and hold on to a sturdy chair or countertop/kitchen sink for balance. Step backward with the leg you are stretching. Then lean forward allowing the front knee to bend until you feel a slight stretch in the front of your thigh. Hold for 20-30 seconds.

Repeat 5 times.

Coach's Note: *Feet should remain planted on the floor with toes facing forward.*



8. Wall Slide Hips

Instructions:

With feet shoulder-width apart and back to wall, slide down wall as far as comfortable. Make sure your knees do not go past your toes. Your therapist will guide you on how far to slide down wall. Make sure you keep equal weight on both legs. Push back up equally through both legs and come to standing.

Perform 20 times.



6

Hip Recovery Goals: Weeks 4 - 6

Now that you are more than one month after your surgery, you should be moving closer to recovery and full independence. Keeping up with your home exercise program and achieving goals is even more important, since, unless ordered by your surgeon, you will likely receive less supervised therapy from this point forward. Most patients at this phase of their recovery:

- Have achieved most/all of their 1 - 4 week recovery goals.
- Are able to walk with a cane.
- Are able to walk one-quarter to one-half mile.
- Progress from one foot stair climbing to regular (foot-over-foot) stair climbing.
- If your physician has approved, you may drive a car (regardless which hip had surgery).
- Do your home exercise program twice a day.

Remember, all patients recover at different speeds, so don't be discouraged if you feel a little "behind" in the process. If you feel that you are seriously behind, or are experiencing other problems, don't hesitate to contact your physician with your concerns.

Hip Recovery Goals: Weeks 6 - 12

Congratulations! You should be moving into the “home stretch” in your recovery process over the next few weeks. During this time, your goal should be to move towards resuming most or all of your regular activities. Most patients at this phase of their recovery:

- Have achieved most/all of their 1 - 6 week recovery goals.
- Are able to walk without a cane.
- Are able to climb and descend stairs in normal (foot-over-foot) fashion.
- Can walk one-half to one mile.
- Have regained at least 80% of their strength.
- Have resumed many fun activities like dancing, bowling and golf.

Remember, all patients recover at different speeds, so don't be discouraged if you feel a little “behind” in the process. If you feel that you are seriously behind, or are experiencing other problems, don't hesitate to contact your physician with your concerns.



Advanced Hip Stair Exercises

Your physical therapist will instruct you on what step height with which to begin. These exercises are typically started 6 - 12 weeks after surgery.

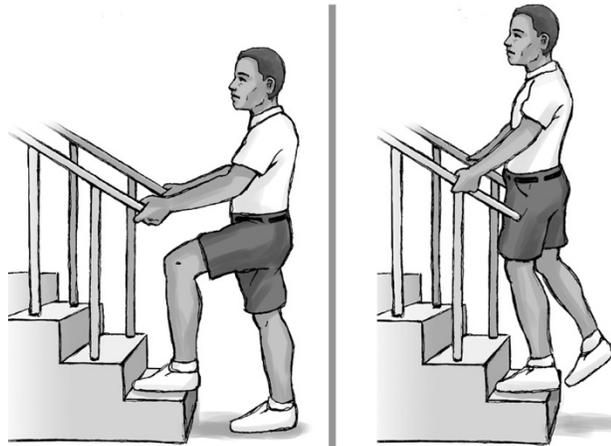
1. **Single Leg Forward Stairs**
2. **Single Leg Lateral Stairs**
3. **Heel Toe Raise Stairs**

1. Single Leg Forward Stairs Hips

Instructions:

Hold onto stair railing – place affected foot on first step. Step up on stair with affected leg. Return to start position. May need to begin with 2-4” step (book/block) and progress to higher step as tolerated.

Perform 20 times.

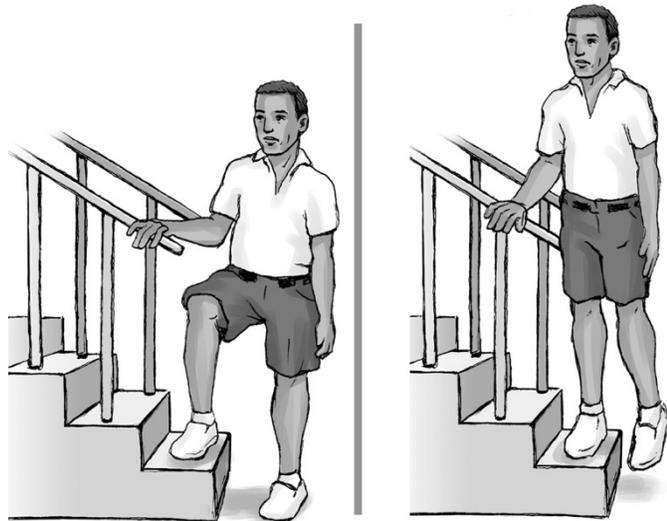


2. Single Leg Lateral Stairs Hips

Instructions:

Face railing, with affected leg nearest step. Holding onto railing, place foot on step and slowly step up lifting unaffected leg from floor; slowly lower foot to start position. May need to begin with 2-4” step and progress to higher step as tolerated.

Perform 20 times.



3. Heel Toe Raise Stairs Hips

Instructions:

Stand, holding onto railing, with toes on stair and over edge. Relax and let heels hang down. Hold for 20 seconds.

Perform 5 times.



Dental and Medical Procedures

- Notify your dentist or other doctor/surgeon in advance if you are having dental work or other invasive procedures.
- You will need to be on antibiotics for the rest of your life preventively for any dental, endoscopy, colonoscopy or dermatology procedure.
- It is best not to have any kind of dental procedure for 6 months after your joint replacement.



Preventing Infection After Surgery

Although risks are low for postoperative infections, the risk remains. A prosthetic joint could possibly attract bacteria from an infection located in another part of your body.

If you develop a fever of more than 100.5 degrees or sustain an injury such as a deep cut or puncture wound, you should clean it as best you can, put a dressing or adhesive bandage on it, and notify your doctor. The closer the injury is to your prosthesis, the greater the concern. Occasionally, antibiotics may be needed. Superficial scratches may be treated with topical antibiotic ointment. Notify your doctor if area is painful or reddened.

Traveling After Surgery

When traveling, stop and change positions frequently to prevent your joint from getting stiff.

Will my new joint set off security sensors when traveling?



Your joint replacement is made of metal alloy and may or may not be detected when going through some security devices. Inform the security agent you have a metal implant. The agent will direct you on the security screening procedure.

Long Term Exercise Guidelines

With permission from your surgeon and primary care doctor, you should be on a regular exercise program three to four times per week, lasting 20 to 30 minutes.

Impact activities such as running and singles tennis may put too much load on the joint and are generally not recommended.

High-risk activities such as downhill skiing are discouraged because of the risk of fractures around the prosthesis and damage to the prosthesis itself.

Exercise Advice:

- Choose low impact activity.
- Attend recommended exercise classes.
- Follow the home program outlined by your care team.
- Walk one to three miles regularly.
- Use a home treadmill (for walking).
- Use a stationary bike.
- Complete regular aquatic exercises.
- Exercise regularly at a fitness center.
- Choose low-impact sports such as golf, bowling, gardening, dancing, swimming, etc.



Consult your surgeon or physical therapist about specific sport activities.

Activities to Avoid:

- Do not run or engage in high-impact activities or activities that require a lot of starts, stops, turns, and twisting motions.
- Do not participate in high-risk activities such as contact sports.
- Do not take up sports requiring strength and agility until you discuss it with your surgeon or physical therapist.



Importance of Lifetime Follow-ups

When should you follow-up with your surgeon?

- Every year, unless you are instructed differently
- Anytime you have mild pain for more than a week
- Anytime you have moderate or severe pain

There are reasons for routine follow-up visits with your surgeon.

Your implants could become loose and this could lead to discomfort and pain. Additionally, if your implant was secured with cement, the cement could crack and cause a reaction in the bone called osteolysis, which may cause the bone to thin out and cause loosening.

Another reason for follow-up is the plastic liner in your implant may wear. Tiny wear particles combine with white blood cells and may get in the bone and cause osteolysis (similar to what can happen with cement).

X-rays taken at follow-up visits can help detect problems. New x-rays can be compared with previous films to make these determinations. This will be done in your doctor's office.

If you are unsure how long it has been or when your next visit should be scheduled, please call your doctor.

