

BEFORE, DURING & AFTER

Hip Joint Replacement Surgery

Please bring this guide to the hospital and to all physiotherapy appointments

Name: _____

Surgery Date: _____

Surgeon: _____

Special Instructions: _____

www.interiorhealth.ca

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“Before, During and After Your Total Joint Replacement” Booklet, developed by Vancouver Coastal Health Authority as well as “Your Total Hip Replacement” and “Your Total Knee Replacement” by The Physical Therapy Department of The Mary Pack Arthritis Program and The Reconstructive Orthopedic Health Care Team at Vancouver General Hospital.

Introduction

Joint replacement is major surgery that needs a lot of hard work and healing. People who are prepared, have a smoother recovery; this means getting you and your home ready. During the wait for surgery, you need to improve your health and fitness. This book will describe what you will do to be successful before, during and after surgery.

Hospital stays are short. It is healthier for you to recover at home where you will eat, sleep and heal better. Most people go home within two to three days after surgery with help from family or friends. The hospital team will help you get moving and safely return to daily activities.

If there is a difference between this book and instructions from your surgeon, family doctor or health care team, **FOLLOW THE INSTRUCTIONS OF YOUR SURGEON / DOCTOR / TEAM.**

About Hip Replacement Surgery

The common cause of joint disease is arthritis. Surgery is only for those people with badly damaged joints that can't be helped by exercise, weight loss, medications, etc.

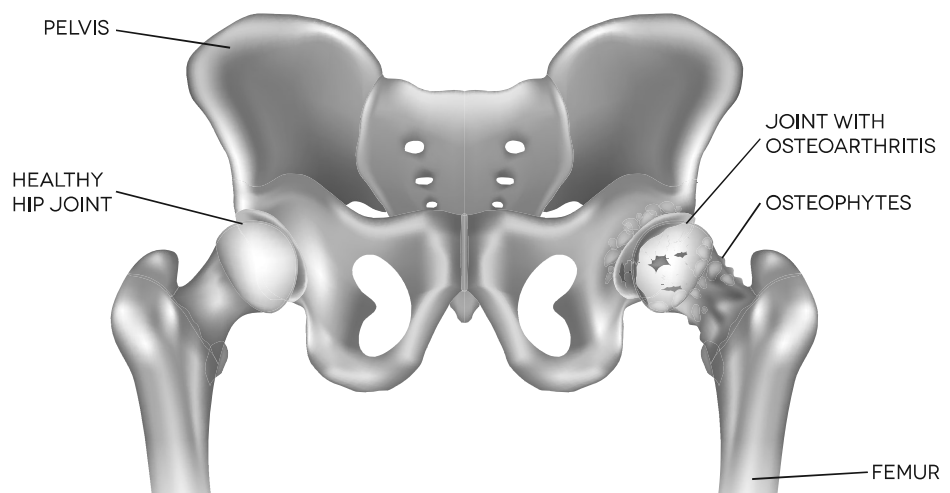
Surgery may:

- relieve pain
- improve walking, standing, dressing, bathing, etc

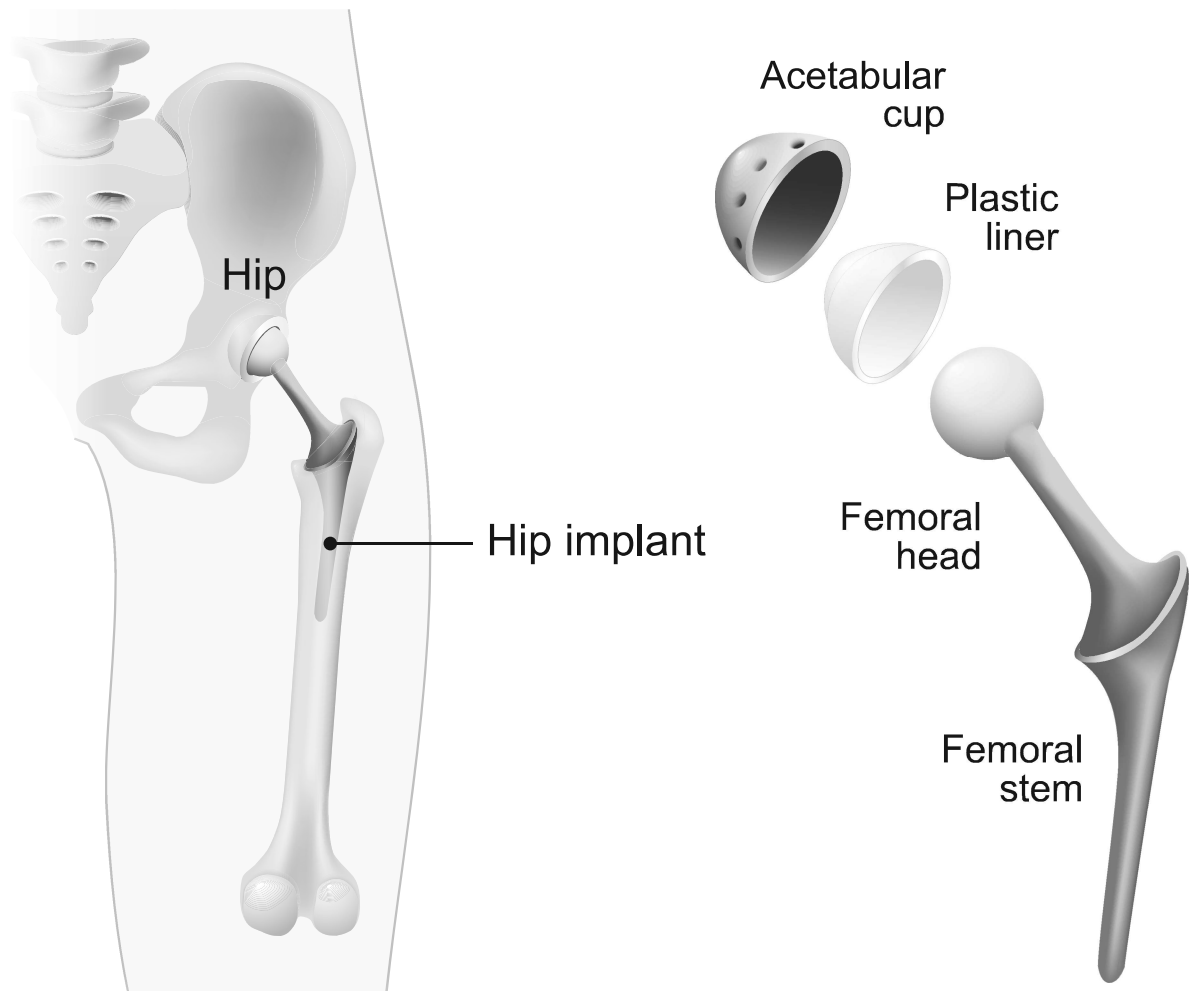
Most people have good results following their first joint replacement. With daily exercise, the new joint usually lasts 15-20 years or more.

The type of surgery will be decided by your surgeon based on your:

- age
- bone strength
- shape and condition of the joint
- general health
- weight
- activity



Components of the total hip replacement:



The Surgical Procedure for Hip Replacement

A cut is made over the top of the femur (thigh bone). The muscles are moved and the joint is pulled apart. The damaged cartilage and bone are cleaned away. The new socket cup is fit into place in the pelvic socket.

The head (ball) at the end of the femur (thigh bone) is removed. Some bone marrow is removed from the hollow of the femur so that the metal stem can be placed.

The new hip is put together and the muscles and skin are sewn in place with sutures and or staples. The hip is then tested for movement and stability. The surgery usually takes about 1.5 hours.

Cemented Joints

One or both parts are held by bone cement that bonds to the metal. It hardens quickly to allow weight bearing and walking the same day as surgery.

Uncemented (“porous coated”) joints

The parts are coated with tiny beads. New bone grows into the spaces between the beads to make a strong bond. The new bone growth takes 6 – 12 weeks and you may need to keep your weight off your new joint when moving or walking.

Hybrid Joints

When one part is held by bone cement and the other part is coated in tiny beads that new bone grow into. This bone growth can provide additional long-term joint stability. Some parts of the new joint may be screwed in place to keep the joint stable.

Surgeons have reasons for choosing one of the above options - please ask your surgeon for details on what has been selected for you.

Revision Joint Replacement Surgery

If your new joint fails, a repeat surgery may be needed. The old parts may be replaced with new ones. Repeat surgeries are more complex and the parts may not last as long as the first surgery. Reasons for joint failure may include: loosening/wearing of the joint, bone loss or infection.

To take care of your new joint - See “Recreational Activity Guidelines”, page 30

Pain Management – Before Surgery

Why is there pain?

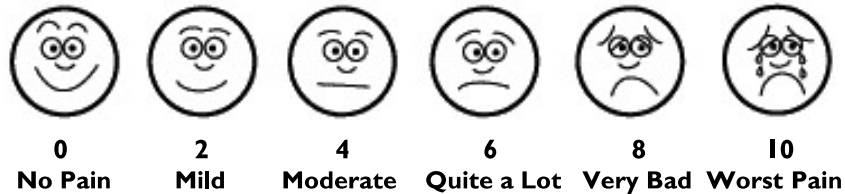
- Pain may be caused by tissue damage, infection, swelling, joint injury or osteo/rheumatoid arthritis:
 - In osteoarthritis, the joint surface that acts as a cushion is worn down. This leads to swelling which causes pain or stiffness.
 - Rheumatoid arthritis is a disease where the immune system attacks the joint surface and tissues which causes swelling, stiffness and pain.

Why is pain control important?

- Pain can affect your daily activities and quality of life.
- Untreated pain may lead to anxiety, depression, poor sleep, high blood pressure and poor wound healing.
- If you are feeling pain, talk to your doctor and/or health care team about a pain plan.

When talking about your pain, include the:

- place
- type (throbbing, stabbing, dull)
- things that change or cause pain
- rate of your pain on a scale of 0 – 10



3 Main Types of Pain Medication



1. **Acetaminophen** (Tylenol® - Long acting or arthritic formula)
 - Works by lowering pain signals
 - Discuss with your doctor if you regularly consume alcohol
 - **CAUTION:** Do not exceed 4,000 mg per day
2. **Non Steroidal Anti-inflammatory Drugs - NSAIDS** - ibuprofen (Advil®) (Motrin®), ASA (Aspirin®), diclofenac (Voltaren®), celecoxib (Celebrex®), naproxen (Naprosyn®)
 - NSAIDS are used to treat pain and swelling
 - **CAUTION:** Let your doctor know if you have a history of stomach ulcers, heart failure or kidney disease
3. **Narcotics (Opioids)** – codeine, oxycodone, morphine, hydromorphone (Dilaudid®), fentanyl
 - Work by blocking the pain signals
 - **CAUTION:** Discuss use of narcotics (opioids) with your doctor if you regularly consume alcohol or other addictive substances

These pain medications are available in different forms:

- Immediate release (fast acting) medications can work in as little as 30 minutes, but last only a few hours and may be taken as needed.
- Sustained release (long acting) medications work in 1 to 2 hours but last longer.

Your doctor may order all these medications together as they help to control your pain in different ways.

Side Effects of Pain Medications

NSAIDS:

Side effect	Management
Stomach upset	Take with food. Coated tablets may help
Bleeding	Let your doctor/pharmacist know if you have a bleeding disorder or are on a blood thinner
Allergy	Let your doctor/pharmacist know if you have an allergy or breathing problem with ASA (Aspirin®) or any NSAID
Kidney Function	Inform the doctor/pharmacist if you have poor kidney function

Narcotics (Opioids):

Side effect	Management
Sleepiness	Allow a few days to get used to the sleepiness. Do not drive until you know how the medication affects you. Do not mix with alcohol or other medications that may cause drowsiness without talking to your doctor.
Dry Mouth	Use a sugar-free candy or lollipop
Nausea/Vomiting	Take with food. Lie down if you have nausea. You may also use Gravol® (dimenhydrinate)
Constipation	Prevention is key! Drink lots of fluids (up to 8 glasses a day). Use a laxative and/or stool softener under doctor advice
Allergy	Let your doctor/pharmacist know if you have an allergy to any narcotics (opioids)

Common concerns about taking pain medications

Tolerance: Over time you may need more pain medication to get the same effect. Medication or doses may need to be changed by your doctor to get the best pain relief.

Physical dependence: Over time, your body may adapt to pain medication. When the medication is stopped suddenly, you may feel withdrawal symptoms such as headache, sweating and nausea. This can be avoided by lowering your dose over time.

Addiction: Addiction to these drugs rarely occur when taken for pain relief. People may confuse addiction with physical need for pain relief. These are not the same.

If you have a history of addiction to alcohol or drugs talk to your doctor to develop a pain plan.

Other Pain Relief Options

Sleep – Sleep is important to lower your pain.

Heat and cold – Follow your doctor's orders.

Relaxation exercises – May help you rest, sleep and distract you from pain. Use music to relax the mind and body. Breathing or meditation can help you lower stress and heal.

Walking aides – A cane, walker or crutches can take stress off your joint and lower your pain.

Talk with an occupational or physiotherapist – They will teach you how to use equipment to move, walk and do your activities more comfortably.

Joint protection – Using a brace or splint may help. Talk to an occupational or physiotherapist for information.

Massage – A therapist will massage your muscles to relax and lower the pain. Arthritic joints are tender so tell the therapist about your condition.

Exercise programs – A program may be set up to help you become more fit. Contact the Arthritis Society or your local community center.

Optimizing Your Health

Get Your Body in Shape

It is important to get in the best physical shape possible prior to surgery. **Work on building your strength and staying active!**

After surgery, you will rely on your arm strength. See a private physiotherapist, fitness trainer or aquatic/Osteo Fit class that supports people with arthritis.

The Arthritis Society is an excellent resource. Contact the Arthritis Answers Line at 1-800-321-1433 or www.arthritis.ca.

Choose low-impact activities like swimming, water aerobics, stationary cycling, or chair aerobics. If exercising is new to you, **consult your family doctor to ensure there are no health concerns before starting.**

Avoid activities that increase pain in your joint. Your activities should be as pain-free as possible.

Mental Wellness

Anxiety or worry related to an upcoming surgery is normal. There are ways to decrease your anxiety, which can improve your surgical experience and even your recovery.

Some people do best when details and information regarding their surgery are clear to them. Do you have outstanding questions that your care team can answer?

1. _____
2. _____

Some people do best when they have distractions to take their minds off their upcoming surgery. Some healthy distractions and coping strategies that may be helpful are:

- Deep breathing
- Relaxation methods (mindfulness, grounding & progressive muscle relaxation)
- Quiet activity: reading, puzzles, listening to music, movies, visiting with friends / family, time with pets, being outdoors, meal prep / baking, self-care, bath, massage, sleep, light exercise, yoga.
- Limit the time you spend worrying
- Consider what you would say to a friend in the same situation

My healthy distractions:

1. _____
2. _____

Community Resources

Helpful Websites:

Anxiety Canada

<https://anxietycanada.com/>

Canadian Mental Health: Bounce Back program

Google search- positive coping with health conditions

Smoking Cessation

Smoking / vaping is bad for your health. What you may not realize is smokers who have surgery are twice as likely to have major complications. You can change this!

If you stop smoking before surgery and during recovery you will:

- Heal faster
- Improve your breathing
- Improve blood / oxygen flow to, and reduce stress on your heart
- Shorten your hospital stay, GET HOME SOONER!!

An effective way to quit smoking is a combination of counselling and Nicotine Replacement Therapy. Talk to your care team about the best plan to quit. This will significantly improve your chances of having a smooth recovery.

Community Resources

Quit Now! Phone 1-877-455-2233 or Text: QUITNOW to 654321

www.quitnow.ca/join

Access a free 3 month supply of either nicotine gum or patches, or a free prescription for smoking-cessation drugs, with a Pharmacist or physician's prescription.

Healthy Eating

Nutrition

Preparing for surgery is like training for a race. Having surgery is stressful on your body. Good nutrition is important to help prepare your body for surgery and to help with healing afterwards. Eating a healthy diet rich in protein and with enough energy, can prevent complications. Choose a variety of healthy foods.

Protein

- Choose 2 to 3 servings of meat or alternatives each day (meat, eggs, nuts, seeds, beans, tofu)
- Choose 2 to 3 servings of dairy products each day (milk, yogurt, cheese)

Energy

- Eat 3 to 6 times per day, spread across the day
- If you have a poor appetite or have been losing weight, try: eating small amounts more often
- Include a fat source at each meal such as oil, butter, margarine, cream, sweet treat and nuts
- Drink energy rich beverages between meals, such as milk, juice or nutritional supplement drink such as Ensure, Boost, Carnation Instant Breakfast or Glucerna
- Avoid foods labelled "light", "low calorie", "Reduced Fat", "fat-free", "reduced sugar". Choose full fat yogurt and cheese, whole milk. Unless you have been told to lose weight.
- Have ready-made frozen meals and prepared snacks on hand (i.e. granola bars, cheese and crackers, pudding, nuts, trail mix)

Diabetes

- Wounds take more time to heal for people who have diabetes. You can optimize your healing by improving your blood sugar management.
- Goal for blood sugar levels should be 4 to 10 mmol/L.
- Goal for HgA1C (3 month average) is less than 7%

Community Resources

Call 8-1-1 Dietitian services at HealthLink BC

Diabetes Canada: <http://www.diabetes.ca>

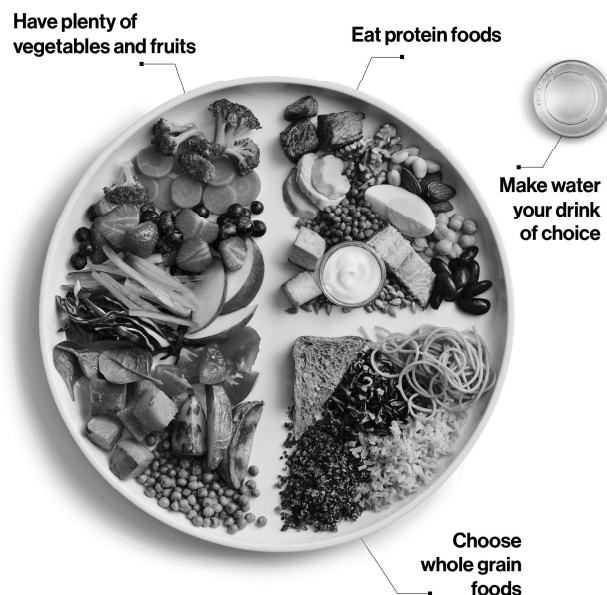
Meal delivery Service: <http://www.bettermeals.ca>

<https://www.healthlinkbc.ca/healthy-eating>

<https://food-guide.canada.ca/en/>

Healthy Eating for Everyone

Image courtesy of
food-guide.canada.ca



The following are important:

Iron is needed to build up hemoglobin. Hemoglobin in your blood carries oxygen through your body. If your hemoglobin is low (anemia), you may feel tired, dizzy and weak or get short of breath easily. Good sources of iron include meat, beans, tofu, some green leafy vegetables and fortified whole grains.

Calcium heals your bones and keeps them strong. Good sources of calcium include: dairy, dark leafy greens and nuts. Note: Drinking more than 4 cups of coffee or caffeinated products each day will take calcium from your body so limit these items.

Vitamin D helps your body absorb calcium. Look for vitamin D-fortified foods and get 15 minutes of sunshine every day.

Vitamin B12 and folate / folic acid prevent some types of anemia. Good sources of vitamin B12 include: meat, dairy and eggs. Good sources of folate/folic acid include: leafy green vegetables, beans, fortified grains and orange juice.

Protein is needed for healing. High protein foods include: meat, dairy, eggs, beans and nuts. Include protein at every meal.

Bowel Health: Constipation is a common side effect of pain medications and less activity. You should take enough fibre (from plants) and fluids to keep your bowels moving.

Healthy Weight

If you are overweight, you can safely lose about 2 pounds a week. The best weight loss is through healthy food choices and activity.

[1 extra pound = 3–6 POUNDS OF FORCE on your knees and hips approximately]

Being too thin can make it harder for your body to heal.

Talk to a dietitian if you are overweight or too thin. To find out more information on nutrition or specific nutrients:

Call 811 to speak to a dietician or go to www.healthlinkbc.ca

Dietitians of Canada Website: www.dietitians.ca

Planning for Discharge

You will require help with shopping, meals, housekeeping and sometimes personal care. **You MUST identify someone as your support person to help you after discharge.** Someone **MUST** stay with you 24 hours a day, for at least the first 3 days, and be available for 10 – 14 days after this.

You **MUST** arrange transportation home from the hospital. If family or friends can not help, you may choose to contact a private agency (listed under Home Support in the yellow pages). If you are having difficulty managing at home now, or are concerned about managing at home after your surgery call BC Healthlink at 8-1-1 for information about local resources.

Helpful Hints

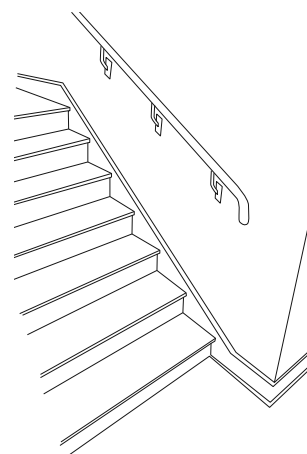
- Arrange for someone to look after your home (i.e. water plants, care for pets and pick up mail)
- Your ride home should have space for you to sit in comfort in the passenger seat
- You may be eligible to use HandyDART, for more information – See “Transportation”, page 39

Preparing Your Home

You need to make changes in your home BEFORE surgery.

Stairs and hallways

- Install a railing along inside and outside stairs
- Remove rugs, cords, clutter and anything that could trip you
- Remove all plant items from steps
- Remove mildew or ice/snow from outdoor steps
- Have good lighting and use night lights to show a clear path to the bathroom



Bathrooms

- Install a grab bar or hand rail in your shower or bath
- Remove sliding glass doors from bathtubs and install a shower curtain
- Be sure that your shower or tub has a non-slip coating or mat
- Install a hand-held shower head
- Use a raised toilet seat

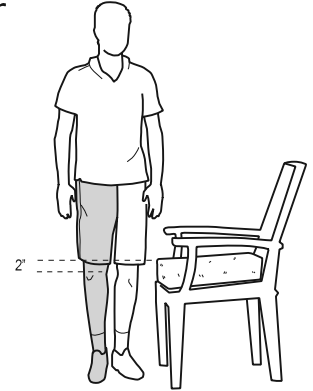


Kitchen

- Move items you use often to be safely reached.
- Buy frozen meals or freeze your own. Stock up on canned food and other basic items. See "Health Care Resources", page 39, for more information on Meal Catering
- Have a high stool for sitting when doing activities at a counter

Furniture

- Add extra firm cushion or raise height of chairs (chair should have a firm back and arm rests)
- Check that the top of your mattress is at least as high as your knee. If it is too low place the frame on blocks or add another mattress.



Equipment

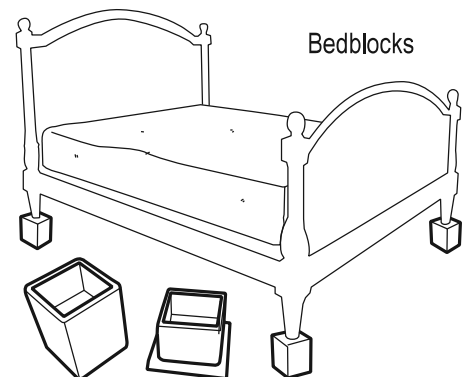
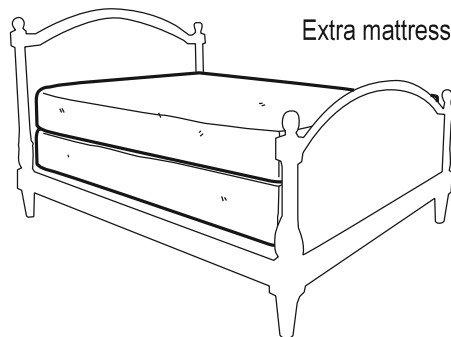
You will use a walker or crutches to get around, and everyday activities such as using a toilet, dressing, cooking or carrying items may be difficult.

You may need the following:

- long-handled reacher (grabber)
- long-handled shoe horn
- sock aid
- loose, comfortable clothes
- extra-firm cushion – 4 in. x 16 in. x 18 in.
- safe supportive shoes that either slip on or do up with elastic laces or velcro
- raised toilet seat
- long handled bath sponge
- bath transfer bench/shower seat



Your occupational or physiotherapist will show you how to use these devices in your education class or in the hospital.



How to Get Equipment

Red Cross Depots or service clubs/health units have crutches, walkers, canes, raised toilet seats and grab bars to borrow free of charge for 3 months. You will require a referral from your health care team to borrow equipment. Medical supply stores have most equipment you need if you wish to purchase.

At least one week before your surgery, arrange purchase or pick up your equipment from the Red Cross or service club/health unit. There are Red Cross Depots throughout Interior Health.

Preparing Yourself for Surgery

The Pre-Surgical Screening (PSS) Program will ensure you have:

- a review of your physical history and medications
- screening tests completed
- teaching about what to expect before, during and after your surgery
- a chance to ask questions so that you feel ready for your surgery

Anesthesia - Your anesthetist will discuss options with you to help choose the best anesthetic. Options include:

- **Spinal anesthetic** blocks feeling from the waist down. You may also be given a drug to help you relax.
- **General anesthetic** puts you to sleep during the surgery.

Delirium - Notify your healthcare team if you had delirium (confusion) with other hospital stays.

If you drink alcohol regularly, you are at risk for delirium related to **alcohol withdrawal**. For six weeks before surgery, limit alcohol to no more than one drink (8 ounces of beer, 3 ounces of wine or 1 ounce of spirits per day).

Infection - Call your surgeon's office if your surgery is within a few days and you think you have an infection (e.g. sore throat, infected cut, bladder infection, boil, etc.).

Blood Clots - Tell your surgeon and health care team before surgery if you have had a clot in the past.

Medications - One week before surgery, stop or adjust medications, vitamins, and supplements as you were told in your pre-surgical screening call or visit.

Hair Removal - **DO NOT** remove hair in any area of your surgery for 7 days PRIOR.

Getting Ready for Surgery – A Checklist to Help you Prepare

As soon as you have seen your surgeon, begin working on the following:

- ☐ Consult a physiotherapist or fitness instructor for an exercise program
- ☐ Begin a healthy eating plan.
- ☐ Contact your family doctor if:
 - pain is altering your sleep, appetite or activity.
 - difficulty walking due to severe pain or unsteadiness.
 - feeling depressed or sad for longer than two weeks.
 - having trouble dressing, bathing, preparing food, etc.
 - prepare your home for easy use and safety.
- ☐ Consider who will support you when you go home. You will need someone in your home for the first 72 hours and then available for 10 to 14 days until you can move around easily.

3 months prior to surgery:

- ☐ Make plans with your support person.
- ☐ Have a check up with your family doctor and have your hemoglobin checked. If you have any medical issues, see your specialist to ensure that you are in the best possible shape.
- ☐ Take any iron supplements ordered by your doctor. Eat iron rich foods.

1 week before surgery:

- ☐ Get all required equipment.
- ☐ Pack clothing for hospital stay.
- ☐ Confirm support person will be available on discharge

Day Before Surgery:

Please carefully follow:

- Instructions on when to stop eating and drinking before your surgery
- Instructions on which medications to take the morning of surgery
- Instructions on how to clean/prepare your skin
- Use a new bar of regular soap or liquid soap to shower or bathe the evening before and wash your hair

DURING Your Hospital Stay

Day of Surgery:

- Have a shower or bath before coming to the hospital
- **Do Not** wear any scented products, make-up, nail polish or jewellery
- Go to the Admitting/Registration area
- Bring all medications with you, as directed by Pre-Surgical Screening

After Surgery

Recovery Room

- You may need oxygen for a short time or overnight
- A nurse will check your pulse and blood pressure
- You will be given pain medications on a regular basis. **Tell your nurse if you have pain.**
- You may have leg massaging devices that gently squeeze your calf muscle to help with blood flow

The Hospital Ward

- Once you are ready, you will be taken to the surgical ward.
- You will be told how much weight you can put on your operated leg (weight bearing status).
- You will be helped to sit on the side of your bed, stand and/or walk the day of surgery. You will learn how to move on your own and walk more every day.
- A nurse will ask you if you have pain or feel sick (nausea).
- A nurse will check your blood pressure, temperature, oxygen levels as well as the colour, warmth, movement and feeling of your leg.
- You will use a commode or a raised toilet seat when you use the bathroom.
- You will have an intravenous (IV) in your arm to give you fluids and medications. Your IV will be removed when no longer needed.
- You will be given a blood thinning medication after surgery, see "COMPLICATIONS – How to Prevent Them", page 19.
- You should change position from your back to your side every 2 to 4 hours while awake to prevent skin or breathing issues. **ALWAYS KEEP PILLOWS BETWEEN YOUR LEGS WHILE IN BED – for the next 6 to 12 weeks.**
- You may have devices to squeeze your calf muscles to stop blood clots from forming.
- A nurse will change your dressing and teach you how to care for your incision.

Exercise

- Take 3-6 big deep breaths and cough to clear your lungs every hour, while awake. If you feel congested, do this up to 5 times per hour
- Move your feet and ankles at least every hour to help blood flow
- Your physiotherapist will teach you about exercises and give you a home exercise program.

Pain Control

You should take pain medication regularly so that you can move and sleep well. Your pain will lessen over 6 weeks to 3 months.

Pain medication can be given:

- by mouth or IV
- through a pain pump you control or
- through an epidural catheter (small tube) placed in your lower back

If your pain is not controlled, **tell your nurse.**

Preparing to go home

- The occupational therapist will review the supplies that will help with your day to day activities.
- You will practice walking and doing stairs with the physiotherapist.
- **On discharge you MUST have someone to:**
 - drive you home
 - pick up your medications
 - stay with you 24 hours a day for the first 3 days and be available for 10 – 14 days after this to help you at home

Length of Hospital Stay plan to go home on the day of surgery or the following day

Your time in the hospital is short – it may be 0 – 3 days depending on the type of surgery and how well you are moving after surgery. Your health care team will make sure you are stable and able to do daily tasks before you go home. Discharge time is in the morning.

Before coming to the hospital have a plan for someone to pick you up any time between 0-3 days after your surgery.

Follow-up with Surgeon

If you did not receive an appointment on discharge, call your surgeon's office to schedule a follow up appointment when you get home.

COMPLICATIONS – How to Prevent Them

All surgery comes with risk of complications. Complications may occur due to prior health problems, the anesthetic and disruption to the muscles, nerves and blood vessels that occur with the surgery. There is a lot you can do to prevent or lower complications.

Low Hemoglobin (Anemia)

You may lose a large amount of blood during surgery. This can result in a drop in your hemoglobin (anemia), which is measured with a blood test. You may feel dizzy, weak and/or tired. You may require a blood transfusion and/or iron supplements.

Blood Clots

Blood clots can form in your calves or thighs (which may move to your lungs), in the first weeks after surgery. See page 21 for more detail.

Tips to Prevent:

- Get out of bed often, move your feet and ankles, tighten and release your leg and buttock muscles every hour
- Your surgeon may order a leg massaging device for times when you are in bed

Your surgeon will order blood thinning medication

- Blood thinners (pills or injections) may be ordered for up to 35 days after surgery.
- You or a family member will be taught how to inject yourself before you go home.

Lung Complications

Fluid in the lungs or infection (pneumonia) may occur after surgery if you are inactive.

Tips to Prevent:

- Change your position every 2-3 hours when in bed, get up and move as soon as possible
- **Take 3-6 big deep breaths and cough every hour (or up to 5 times per hour) while awake**
- Brush your teeth every 4 hours while awake to prevent pneumonia
- People who smoke after surgery are at higher risk for lung problems

Delirium

Confusion after surgery is called delirium. You may be forgetful, mixed up and see or say things that do not make sense. Delirium usually goes away in a few days but may last for a few weeks.

Delirium may be caused by:

- anesthetics and medications
- lack of sleep
- pain
- infection
- alcohol withdrawal
- constipation
- low oxygen levels

The health care team will treat the cause of delirium when possible.

- Wear your glasses and hearing aids.
- Get out of bed and move as soon as possible.

Infection

Infection after surgery is rare but very serious. You may need antibiotics and/or more surgeries. You are more likely to get an infection if you are not healthy and strong.

Tips to Prevent:

- Eat healthy foods
- Wash your hands often
- Avoid people with colds or infections

- Tell your surgeon right away if you think you have an infection (see "Signs and Symptoms of Infection", page 22)

Dislocation after hip replacement

Dislocation occurs when the 'ball comes out of the socket'. After surgery, the muscles/ligaments that support your joint are stretched and weak, which allows dislocation to happen easier. They need time to heal and get stronger.

Tips to Prevent - DO NOT:

- twist your hip
- cross your legs
- sit on any surface lower than your own knee height
- bend the operated hip no more than 90 degrees or as directed by your surgeon or health care team

These rules apply for at least 3 months after the surgery.

Caring For Yourself At Home

Care of your incision

You may have some drainage while healing. A nurse will teach you how and when to change your dressing before you go home.

Once drainage stops, your incision may be left uncovered. If you find it more comfortable or the staples are catching, a hip dressing may be used. You can buy these from a medical supply or drug store.

If you have staples, they will be removed 8 to 14 days after your surgery. You will be told where to have them removed. Small tape strips (such as Steri-Strips™) should be left until loose or fall off on their own.

DO NOT soak the incision in a bath tub, pool or hot tub) until at least 48 hours after your staples have been removed **and** **incision must be completely closed with no drainage or scab.**

Ask your nurse/surgeon when you can shower. Before showering remove the dressing. After your shower pat the area dry with clean towel (do not rub) and replace the dressing if needed.

Please follow the hand out
"Day 7 Mepilex Dressing Change"

Changing your dressing

Please follow the hand out
"Day 7 Mepilex Dressing Change"

Follow surgeon's directions if different than below.

1. Wash your hands well before and after.
2. Remove tape/dressing and discard. **Do NOT** remove the Steri-Strips™. **If the dressing is stuck, moisten with normal saline and slowly remove.**
3. Check the incision for redness or drainage.
4. Clean the area around the incision with gauze soaked in normal saline (buy at a medical supply or drug store). Pat area dry with a clean towel.
5. Apply a new dressing over the incision if needed.
6. **Do not** apply creams or ointments to the incision.
7. Tell your surgeon and family doctor **immediately** if you think you have an infection.

Signs and Symptoms of Infection

The incision and/or area is:

- Red
- Hot
- More swollen
- Draining more (soaking through dressing and/or clothes)
- Draining cloudy liquid that is white or yellowish/green in colour
- More painful (whole leg may hurt)
- Smelly

Or if you develop a fever (above 38°C or 101°F) that lasts over 12 hours

Notify your surgeon and family doctor immediately if you think you have an infection

Medications

Some over the counter and herbal products may raise your bleeding risk.

Talk to your Pharmacist before taking them.

You must ensure your prescription is filled. Carefully read and follow all instructions.

Talk with your family doctor/surgeon or pharmacist about over the counter pain medications.

Medication can cause drowsiness and dizziness.

Controlling Pain

- Take pain medication as ordered by your surgeon.
- Do not wait until the pain is bad before you take pain medication.
- As your pain improves, slowly lower your pain medications.
- Do not push yourself beyond your limit.
- Rest with leg up when you feel tired or sore.
- You may feel some pain when you do your exercises. If it is too painful, talk to your physiotherapist.
- Use ice packs after exercise to ease pain, if directed by surgeon.
- Distract yourself from pain (i.e. listen to music, visit with friends, breathing exercises, watch TV, etc.).

Signs of a Blood Clot

You may have one or more of these signs:

- Red or change in color to either leg
- Leg feels hot
- Sudden increase in swelling and/or pain
- Calf pain that is worse when standing or walking
- Calf muscle is tender to touch
- Sudden shortness of breath and/or chest pain
- A temperature above 38°C or 101°F that lasts over 12 hours

Notify your surgeon or family doctor right away if you think you have a Blood Clot. If you have a sudden onset of chest pain and / or shortness of breath, GO TO THE NEAREST EMERGENCY DEPARTMENT.

Swelling

For a number of weeks after surgery you will have some swelling.

Tips to Prevent / Reduce:

- Lie down, put your leg up on a few pillows
- Do not sit for more than 30 minutes at a time **with your foot down**
- Move your feet and ankles

***** Normal after Hip Surgery**

1. minimal swelling to surgical site and entire leg
2. Warmth around surgical site
3. Bruising to incision and all down the leg
4. Pain!- to incision/hip and not uncommon to have cramps to thigh and pulling or burnign in groin

Constipation

Tips to Prevent:

- Drink plenty of fluids
- Eat more fibre (i.e. bran, fruits, vegetables)
- Use fiber supplements if needed
- Take laxatives and/or stool softeners if needed **Don't forget to start laxatives!**

Tell your doctor or pharmacist if you have ongoing problems with constipation, nausea and vomiting.

Signs of Dislocation

You have a:

- sudden/sharp severe pain
- shortened leg

Notify your surgeon or family doctor right away if you think you have a hip dislocation.

You will need to come into the hospital to have your hip put back in place. After this you may require a cast or brace for six weeks.

Loosening and wear

Over time, part(s) of the new joint may loosen and another surgery may be needed.

To prevent loosening and wear, carefully follow the activity guidelines and precautions provided to you in this book. See "General Activity Guidelines", page 29 and "Recreational Activity Guidelines", page 30.

Avoiding falls

- Wear rubber soled shoes
- Use hand rails
- Do not lean against items that may move
- Wear your eye glasses
- Get up slowly and make sure you have your balance before taking a step
- If needed use a walking aid (walker, cane, etc).

See also "Preparing Your Home", page 13

Traveling

Avoid sitting as a passenger for periods greater than 2 hours in the first 6 weeks after surgery.

Do not drive for 6 weeks after your surgery. Check with your surgeon before you begin to drive.

Allow extra time to clear airport security and tell the officer that you have a joint replacement.

Exercise Guidelines

Exercise will help you recover the movement and strength of your hip and helps to:

- Reduce swelling
- Prevent blood clots
- Control pain
- Prevent constipation
- Improve sleep

Check with your physiotherapist for the best way to WARM UP your new joint, this may include:

- Walking or using a stationary bike for 5 – 10 min

You will go home with an exercise program.

- Use these exercises until you start therapy in an outpatient clinic
- Your program may last up to 8 weeks based on your progress
- Use your walking and/or other aids until your surgeon or therapist tells you to stop
- Talk to your therapist if you have concerns about doing daily activities

Daily Activity Tips

Choose a chair with arm rests and a high seat that is level with the back of your knee.

To stand up:

- Move yourself to the front edge of the chair or toilet and keep your operated leg out in front of you
- Slide your other foot back slightly and lean forward slightly while pushing yourself up using the arm rests, grab bars or stable surface
- Make sure you feel steady before starting to walk

To sit down:

- Back up until you feel the back of your legs against the edge of the chair or toilet
- Slide your operated leg forward, lean forward slightly and reach back for the arm rests, grab bars or stable surface
- Lower yourself slowly, sliding your operated leg in front



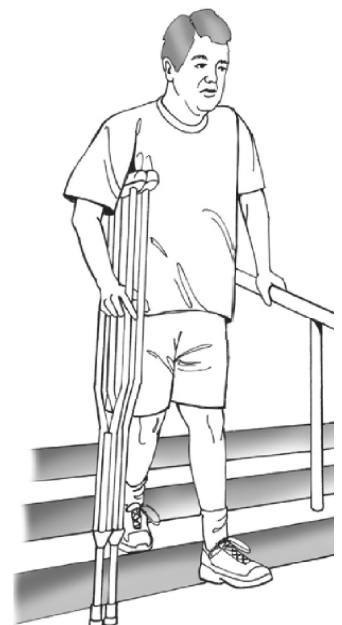
To go up stairs:

- Hold onto the railing with one hand and put the crutches or cane in the other hand
- **Step up with your good leg** and follow with your operated leg and walking aid
- If there is no railing, use a crutch under each arm or the cane on your non-operated side
- Put your weight on the walking aid and step up with your good leg
- Straighten your good leg and bring the walking aid and your operated leg up together

To go down stairs:

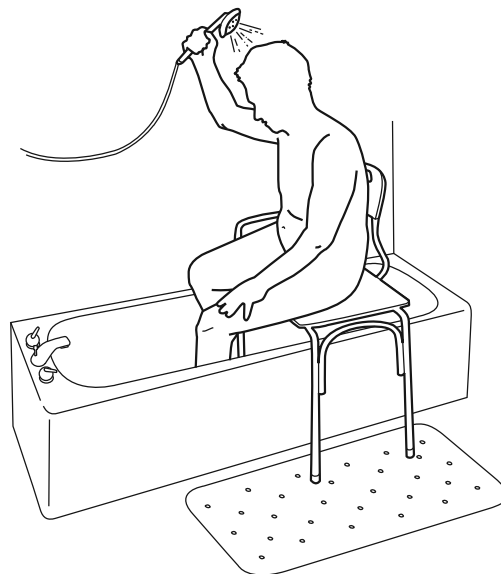
- Hold onto the railing with one hand and **place your crutches or cane on the stair below**
- **Step down with your operated leg** and follow with your good leg
- If there is no railing, use a crutch under each arm or the cane on your non-operated side
- Place the walking aid on the stair below and follow carefully with the operated leg
- Put your weight on the walking aid and step down with the good leg

Remember, "Up with the good, down with the bad."



To sit while showering:

- If you have a walk-in shower, place a high shower chair or stool in your shower stall
- Back up to the edge of the seat and reach back for the seat with one arm while holding onto a grab bar or other stable surface with the other hand
- Slide your operated leg forward and sit down slowly
- Use a hand held shower head
- Dry off well before getting out
- Use a non-slip bath mat inside and outside of the shower stall to prevent slipping on the wet surface
- Use a regular walker to get into and out of the shower



To use the bathtub:

- Sliding doors should be removed
- Use a secure raised bathboard or transfer bench, a hand held shower head and long handled aids
- Back up to the edge of the seat and reach back for the seat with one arm while holding onto a grab bar or other stable surface with the other hand
- Sit down slowly, sliding your operated leg forward and slide back on the seat
- Lift both legs together over the side of the tub using a leg lifter if needed

*** Have someone assist the first time you bathe or shower to make sure you are safe and comfortable.**

If you have questions about the set up of your shower or tub, ask your occupational therapist.

Getting dressed

- Sit on a high bed or firm chair with arm rests
- A long-handled reacher, sock aid or shoe horn may be helpful to put on your socks, pants and shoes
- You will get dressed in the hospital before going home so an occupational therapist can give you tips if you are having trouble



Sleeping

- Ensure the top of your mattress is level with or above your knees
- Follow the guidelines for sitting and standing to get on and off your bed safely
- Use 2 large pillows between your knees and ankles when sleeping on your back or your side
- When turning in bed, use a pillow between your knees to prevent your hip from crossing the midline



Getting in and out of a car

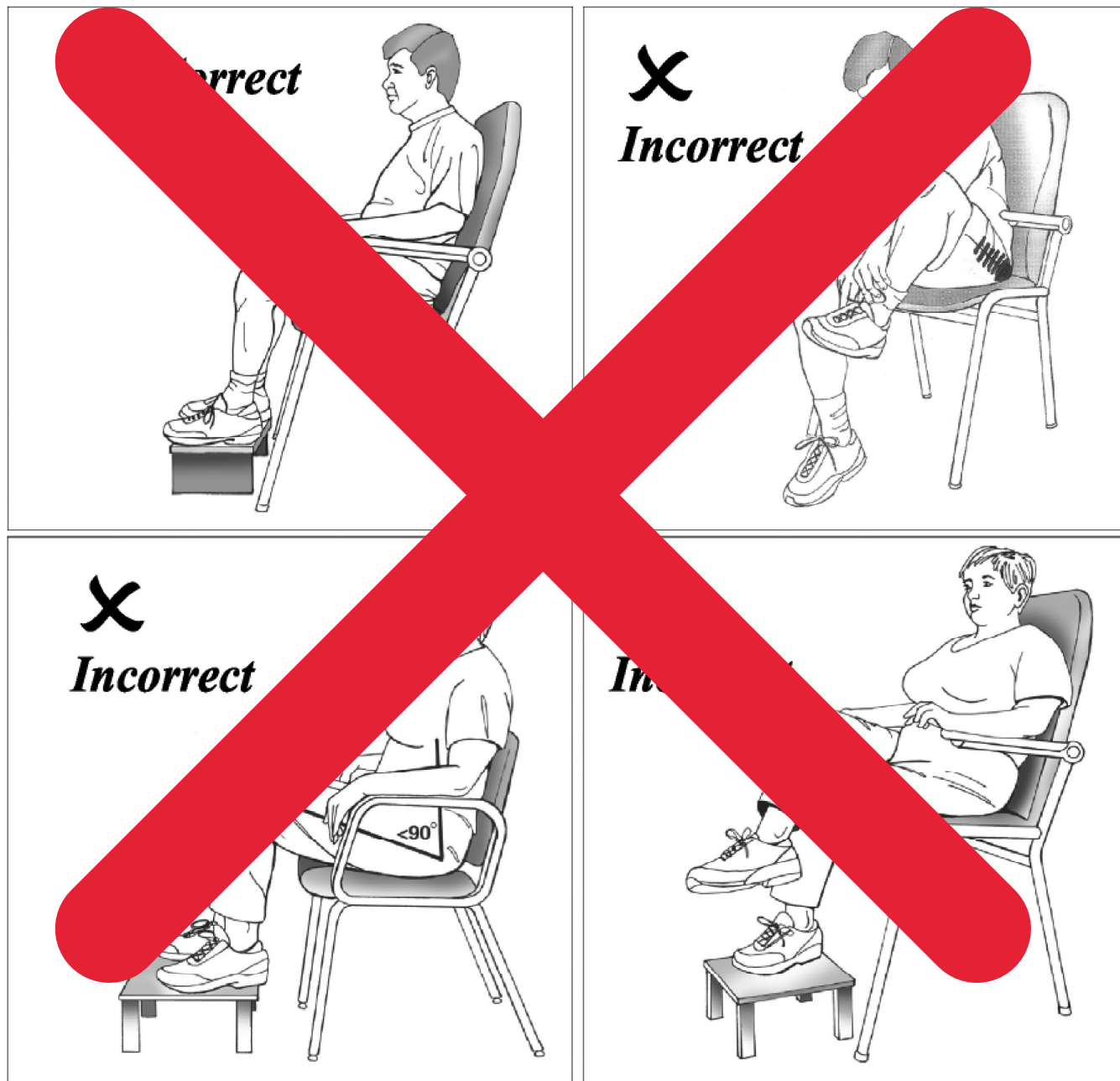
- Park well away from the sidewalk or curb so you have room
- If you are going home in a high vehicle, you may need a footstool and help to get into and out of the vehicle
- Move the front passenger seat back as far as possible
- Back up to the seat and place one hand on the dashboard and the other on the back of the seat
- Lower yourself slowly while sliding your operated leg forward and slide back across the seat until you can swing your legs into the car
- To slide easier, put a plastic bag on top of the seat
- Use a firm, raised cushion with a smooth surface on the car seat if you find the seat is too low
- Reverse this process to get out of the car and have your walker or crutches ready when you stand up
- If you have concerns about getting in and out of your car, discuss this with your therapist



Continue to use any aids as told by your therapist.

General Activity Guidelines

After your hip replacement surgery, you may need to follow rules to allow healing and prevent dislocation (sometimes for up to 3 months). Your healthcare team will let you know the rules you must follow. See pictures below.



- You must exercise to improve your strength and mobility
- Continue to use aids as suggested by your therapist. You may choose to use raised toilet seats and cushions on chairs longer than recommended if you are finding them helpful.

With the direct superior approach (DSA) there is less of a chance of dislocation.

Recreational Activity Guidelines

Regular exercise is important. Activity should be done 4 – 7 days a week, to keep you moving and strong. Choose activities that are low impact and have a low risk of injury or falling.

As each situation is different, speak with your surgeon and therapist about any physical activities that you wish to do.

Recommended activities:

- walking, using a treadmill (shock absorbing footwear)
- swimming, water aerobics, deep water running
- recreational cycling, using a stationary bike
- no impact aerobic dance (e.g. Joint Works)



Activities you may be able to do with caution:

(discuss with your surgeon or physiotherapist)

- hiking easy trails
- downhill and cross country skiing
- dancing
- doubles tennis (avoid running & twisting)
- using a step machine or rowing machine
- weight lifting
- lawn bowling
- gardening / yardwork
- golf (using a cart)



Activities to AVOID:

(discuss with your surgeon or physiotherapist)

- running, jogging
- jumping (skipping rope)
- singles tennis, badminton, squash
- skating (inline and ice)
- contact sports (football, soccer, hockey)
- high impact sports (basketball, volleyball)
- horseback riding



Sexual Activity

Resume sexual activity when you are comfortable, some changes may be needed to avoid pain.

Some positions to try:

- Lying on back with legs apart and operated leg straight or slightly bent
- Lying on your side with operated leg on top, bent slightly at the hip and knee and supported on a pillow or partner's thigh (partner also lying on their side)
- Care must be taken in the first 3 weeks to maintain wound healing

Discuss any concerns with your surgeon or therapist.

Living with your new joint

Your new joint should last 15 – 20 years, if you avoid high risk activities and follow the tips in this book and from your therapist(s).

If you are having another surgery/procedure or dental work, tell your doctor or dentist that you have a joint replacement.

Consult with your surgeon if you are worried about:

- Possible infection, see "Infection", page 20
- Your operated leg suddenly feels short
- You begin to limp or cannot put weight through your operated leg
- Loss of hip movement, strength, painful clicking or feeling unstable
- Unrelieved pain in your hip or leg that lasts more than a few days

Goals following Hip Replacement Surgery

This table lists goals for set time frames. Each person heals differently and the time it takes to meet goals may differ. Also, the goals may differ if you had severe joint issues before your surgery. **Talk to your surgeon or physiotherapist if you are concerned.**

You may find that pain and swelling increases as you begin new exercises, increase movement in your hip or return to regular activities. Continue to manage your pain and swelling; see "Pain Management – Before Surgery", page 5.

By the end of week 3

- Move your leg in and out of bed by yourself
- Move on and off a raised chair, bed and toilet without help
- Walk at home using a walker, cane or crutches
- Use the stairs safely with cane or crutch

By the end of week 6

- Bend your hip to 90 degrees
- Slide your leg out (abduct) to 25 degrees
- Straighten your hip fully to 0 degrees
- Walk several blocks with a cane or crutch in the opposite hand
- Walk up to 15 minutes with a cane or crutch in the opposite hand
- Ride an upright stationary bike (seat raised so your hip doesn't bend more than 90 degrees)

By the end of week 9

- Walk for longer periods of time – use a cane if you walk with a limp
- Sit and stand from a raised chair without using hands to help
- Balance for a short time on your operated leg
- Climb up and down stairs with alternating feet. Use a cane or hand rail for support

By the end of week 12

- Walk without a limp. Discuss goal for walking time with your physiotherapist
- Sit and stand from a normal height chair and toilet without pushing from hands
- Stand on the operated leg while maintaining good posture and alignment
- Climb up and down stairs with alternating feet and little or no railing support
- Return to driving with surgeon's permission

Exercise Guide

You are about to have hip replacement surgery. Patients who prepare for surgery and take part in their care can recover in less time and with less pain.

You may get different instructions from your surgeon, doctor or physiotherapist. Always follow the directions of your care team.

Before starting any exercise program check with your physiotherapist or doctor. This guide is meant to be used under the direction of your physiotherapist.

Caution:

If you have too much pain in your hip to exercise, or if any of the exercises cause more pain or swelling in your hip, stop. Tell your physiotherapist or doctor.

If your whole leg becomes swollen or hot, tell your doctor right away!

General Guidelines: Before Surgery

If you exercise before surgery you can have a faster and easier recovery. Exercise can help to keep your hip moving and get your muscles stronger.

It is important to find activities that keep you moving. A private practice physiotherapist can suggest exercises that are best for you.

Possible suggestions may include:

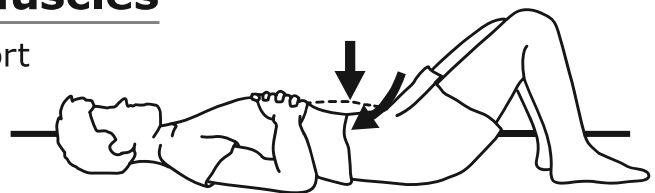
- swimming, water walking, water aerobics, water running
- cycling (stationary or bicycle)
- walking with a cane or walker, pole walking

To keep pain and swelling under control:

- Put ice on your joint, if told to by your surgeon
- Pace yourself
- Use a walking aid such as a cane, crutches or walker
- Talk to your doctor or pharmacist about taking pain medications regularly

Learn to Tighten Your Core Muscles

Core muscles are deep muscles that support your spine and pelvis. They provide stability, control and good posture when you move.



When your hip hurts too much to stand or walk, these muscles become weak and don't work well. This can lead to back pain, stiff back, stiff hips, and poor balance. With practice, they will tighten without you thinking about it.

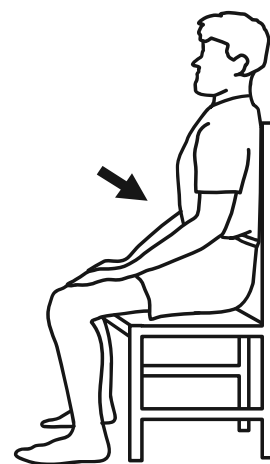
Learn to **use** these muscles **before** and **during** each exercise.

Pelvic floor (bladder muscles)

**Pull your bladder muscles to your belly button
OR imagine you are gently trying to hold your urine.**

Hold for 6 seconds, then slowly relax

Repeat 6 – 8 times, 3 times a day



Lower abdominal muscles

Pull your belly button into your spine OR imagine slowly zipping up a tight pair of pants.

- Hold for 6 seconds while breathing quietly, then slowly relax as if you unzip your pants. Keep upper chest relaxed. Repeat 6 – 8 times, 3 times a day

Exercises: After Surgery

1. Deep Breathing and Coughing Exercises

- Breathe deeply in through your nose and out through your mouth
- Do 3–6 big breaths in a row
- After the deep breathing, try to cough
- Repeat 1–5 times per hour

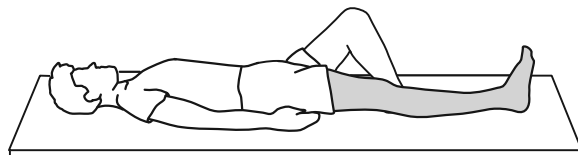
2. Ankle Pumping

- Lying on your back, pump both ankles up and down as far as is comfortable
- Repeat often during the day



3. Static quads / Thigh muscle tightening

- Lie on your back with your hip straight
- Gently tighten the front of your thigh
- Hold ____ seconds
Repeat ____ times
Do ____ times per day



Do # 1- 4
when resting

4. Static Glutes / Buttock Tightening

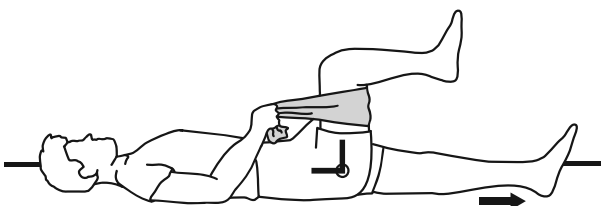
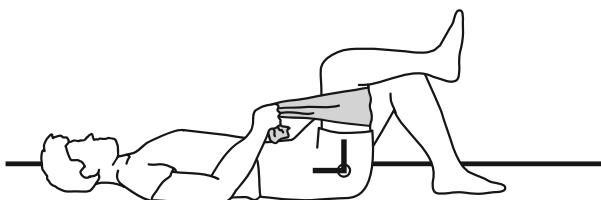
- Lie on your back with legs straight
- Squeeze lower buttocks together gently, as if holding a pencil between your buttocks
- Hold 6 seconds
- Repeat ____ times
Do ____ times per day



Do #5 through to #11 once home from the hospital - some may be difficult.
It's ok just keep trying

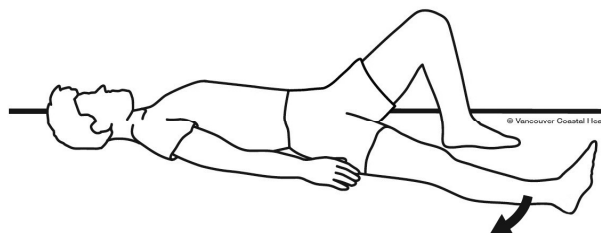
5. Lying Hip Flexion / Heel Slides

- Lie on your back with knees bent, feet in line with shoulders
- Tighten core muscles (page 31 – 32) to keep back and pelvis still
- Slide one leg down the bed, re-set your core muscles, slide leg back up
- Ensure you maximize range without exceeding 90 degrees of hip flexion (or prescribed limit)
- Repeat ____ times
Do ____ times per day
Repeat on other side



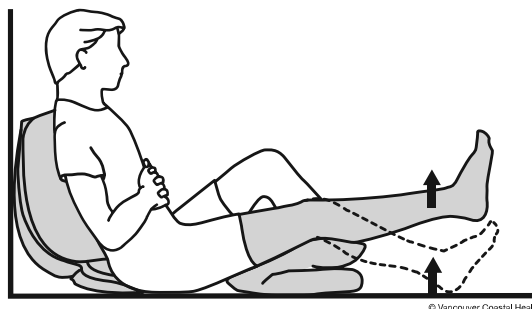
6. Hip Abduction / Leg out to the side

- Discuss with your surgeon or physiotherapist before starting this exercise.
- Lie on your back with one leg bent
- Tighten core muscles to keep back and pelvis still
- Leading with the heel, slide straight leg out to the side (knee cap and foot point to the ceiling)
- Re-set core muscles and slide leg back
- To reduce the risk of a sore heel caused by friction, consider using a garbage bag under your heel to assist with the slide out
- Repeat ____ times
Do ____ times per day
Repeat on other side



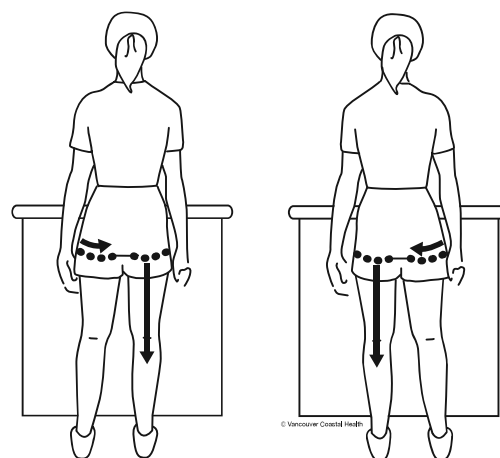
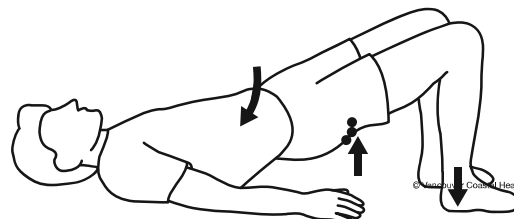
7. Knee Extension / Straightening over a Roll

- Recline on bed, place a large folded pillow under your knee
- Tighten core muscles
- Lift foot up to straighten your knee
- Slowly lower leg down
- Repeat ____ times
Do ____ times per day



8. Lying Hip Extension / Bridging

- Lie on your back with knees bent, press a large rolled towel between thighs (use only one flat pillow or none for your head)
- Tighten core muscles (page 31 – 32)
- Tighten lower buttocks and lift hips up, keep back relaxed
- Keeping pressure on towel, slowly lower hips
- Repeat ____ times
Do ____ times per day

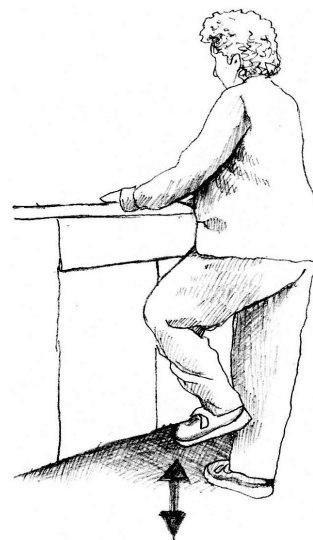


9. Weight Shift, Side to Side

- Stand with feet shoulder width apart
- Tighten core and lower buttock muscles
- Shift your body weight from one leg to the other
- Repeat ____ times
Do ____ times per day

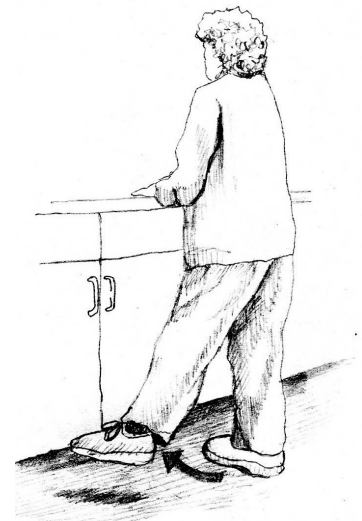
10. Standing Hip Flexion / Hip Bend

- Stand tall at a kitchen counter
- Stand on your non-operated leg and lift your operated leg up
- Do not lift your knee higher than your hip
- Keep the angle between your trunk and your thigh less than 90 degrees (or prescribed limit)
- Do not bend forward and do not twist your hip or pelvis
- Repeat ____ times
Do ____ times per day



11. Hip Abduction / Hip Side Lift

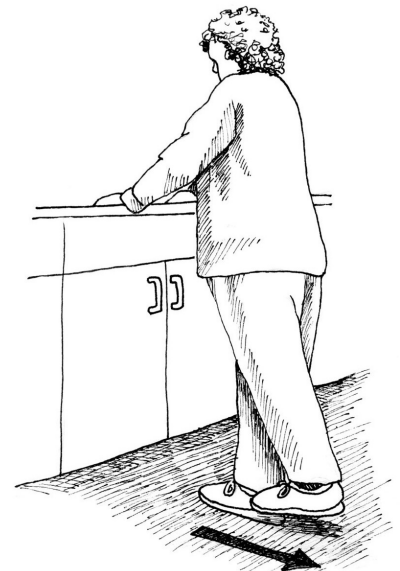
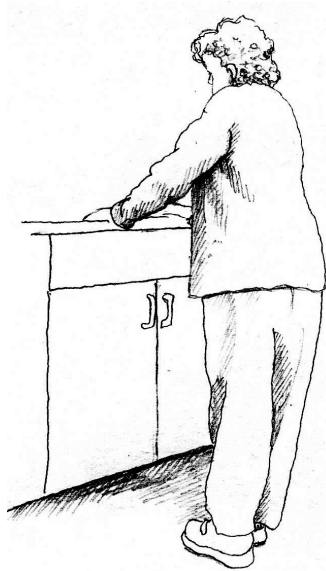
- Stand tall at a kitchen counter
- Stand on non-operated leg and lift your operated leg out to the side
- Keep your toe pointed straight ahead
- Do not lean to the side and do not twist your hip or pelvis.
- Repeat _____ times
Do _____ times per day



Physio will contact you 1-2 weeks after surgery and advance your activity when appropriate

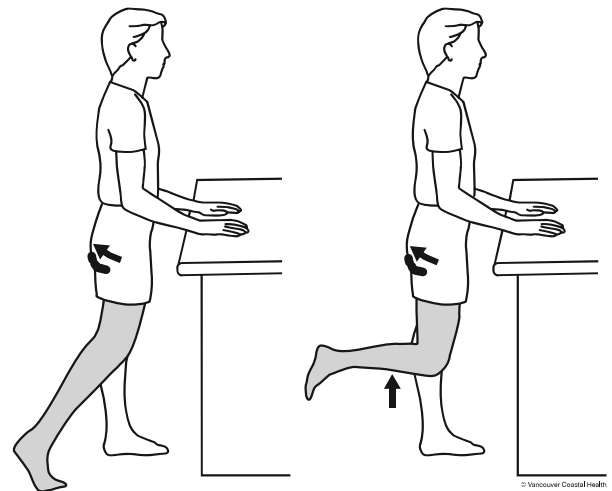
12. Standing Hip Extension / Straight Leg Behind

- Stand tall at a kitchen counter
- Stand on non-operated leg and lift your operated leg up and back while keeping the knee straight
- Do not bend forward and do not twist your hip or pelvis
- Slowly lower your leg to the starting position
- Repeat _____ times
Do _____ times per day



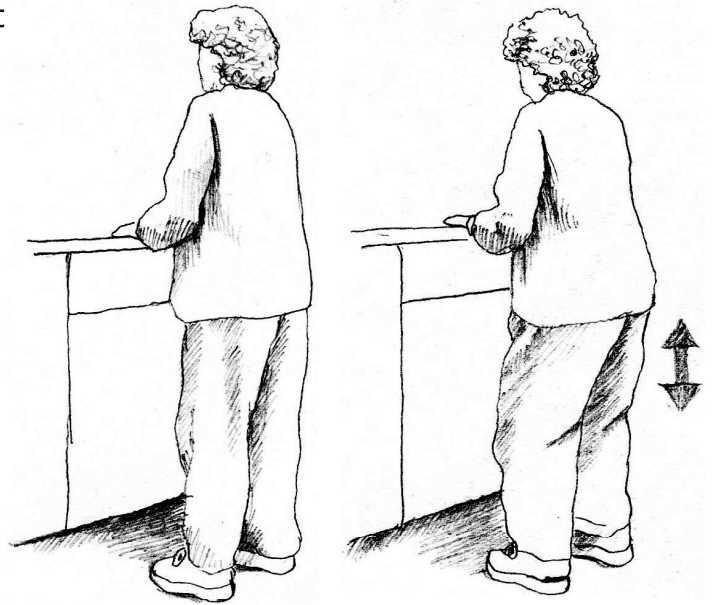
13. Standing Knee Flexion / Knee Bend

- Stand tall at a kitchen counter
- Bend your knee and lift your heel towards your buttocks
- Do not twist your hips or bend forward at your waist or back
- Stand on non-operated leg
- Repeat _____ times
Do _____ times per day



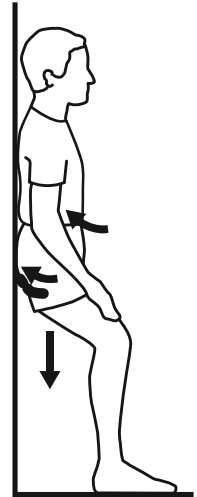
14. Mini-squat

- Stand tall facing the sink with feet shoulder width apart
- Hold on with both hands
- Push hip back and bend slightly as if starting to sit down
- Do not lean forward
- Return to standing position
- Repeat ____ times
Do ____ times per day

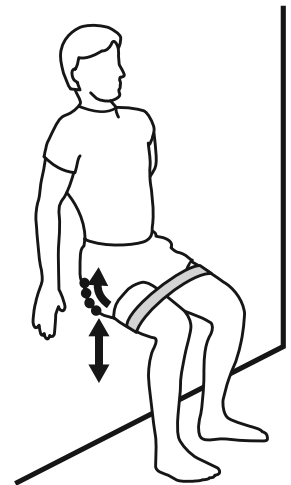
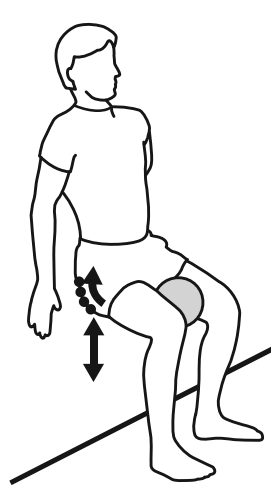


15. Wall Slide

- Stand with back against wall
- Place feet shoulder-width apart and about 2 feet from the wall
- Bend your knees and slowly slide down the wall, keeping your knees in line with your second toe.
- Keep your weight on your heels
- Do not slide too far down the wall
- Slowly slide back up the wall
- Repeat ____ times
Do ____ times per day
- Tips If knees spread wide as you lower, hold a rolled towel between thighs to keep thighs together



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Resources

Health Care Resources

any questions after surgery... call 811 or 711

General Medical and Dietitian Information

HealthLink BC

Phone: 811 or 711 (Hearing impaired)
Web: www.healthlinkbc.ca

Dietitians

Web: www.dietitians.ca

Community Resources – While in hospital you may ask to meet with a social worker to talk about resources you may access in your community.

Meal Resources – Search for companies that provide ready-to-eat or frozen meals.

Help in your home – Search under “home support services” or “home making” for a trained support worker to assist you with your personal care and/or cleaning.

Transportation

*HandyDART Custom Transit**

HandyDART service is available throughout some communities in the province. Book at least 3 working days in advance for rides during the week and 7 days in advance for weekend service. See: <https://bctransit.com>

*Disabled Parking Placards (SPARC)**

Tel: 604-718-7744
E-mail: permits@sparc.bc.ca
Web: www.sparc.bc.ca

The application process takes 2-3 weeks if mailed in or 10 minutes if done in person. The placard is good for use throughout BC.

* An application form must be completed to qualify for these services. After completing the form, have your doctor or therapist confirm your need and then submit it to the appropriate office.

Stop smoking resources

QuitNow



1-877-455-2233 (free call)
www.quitnow.ca

BC Cancer Agency

www.bccancer.bc.ca

Health Canada

www.gosmokefree.ca

Internet Resources

The Arthritis Society

www.arthritis.ca

The American Academy of Orthopedic Surgeons

<http://orthoinfo.aaos.org/>

**National Institute of Arthritis,
Musculoskeletal and Skin Diseases (NIAMS)**

www.niams.nih.gov/hi

Dietitians of Canada

www.dietitians.ca

Osteoarthritis Service Integration System (OASIS)

www.vch.ca/oasis

Physiotherapy Association of BC (PABC)

www.bcphysio.org

Canadian Orthopedic Foundation

www.canorth.org

American Academy of Orthopaedic Surgeons

<http://orthoinfo.aaos.org>

Other Orthopedic Sites

www.myjointreplacement.ca

www.eOrthopod.com

www.mayoclinic.com

Please note: When looking for information on the internet, visit government, university and professional association web sites. Not all information found on the internet is credible, reliable or correct.

Additional resources are available for loan from the Arthritis Learning Center.

Notes
