When You’re Having a Knee Replacement

This book belongs to:

NAME: ____________________________

DATE OF SURGERY: ____________________________

Please keep this book with you wherever you are during your recovery. It is a good resource for you, your family, and your healthcare providers.

Developed by the Bone & Joint Health Strategic Clinical Network in partnership with Alberta Bone and Joint Health Institute.
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Safer Together

Everyone has a part in making care safe by being an aware, informed, and involved member of the healthcare team. Here are some ways you can work with your healthcare team to help make sure your care is safe.

Ask, Listen, Talk
Ask about your healthcare plan. If there’s something you don’t understand, please ask.

Verify Your Personal ID
Your healthcare team will regularly ask you to verify who you are: They haven’t forgotten who you are but are asking as part of providing safe care.

Wash Your Hands
Washing your hands the best thing you can do to prevent spreading germs. Remind others to wash their hands.

Know Your Own Medicine
Know what you take your medicine for and how to take it. Make a list of all the medicine you take and keep the list with you.

Prevent Falls
Most can be prevented. Look around, slow down, hold onto something, ask for help, and be careful.
What you need to know about your knee surgery

Now that you’re going to have a knee replacement surgery, it’s important to know all you can about it, including:

- why your knee needs to be replaced
- what you will have in place of your knee
- the risks of surgery
- what you can expect before, during, and after surgery
- what you can do to help make your surgery a success

This guide will help answer these questions. Take the time to read it with your family and friends, especially those who will be giving you some help.

Understanding and following the information in this guide is part of being an active member of your healthcare team. Your healthcare team includes healthcare providers such as the surgeon, other doctors, nurses, physical therapists, and occupational therapists.

It’s important to have a “buddy” (support person). Your buddy helps you with the things you have to do to get ready for surgery and to have a successful recovery after surgery including going with you to and from the clinic and the hospital.

All your appointments before and after surgery will be at the Hip and Knee Replacement Clinic. Your Case Manager will arrange all of your care, with input from the rest of your healthcare team.

Talk to your Case Manager if you have any concerns or questions.

Please bring this guide with you when you visit the Hip and Knee Replacement Clinic, come for therapy, and when you’re admitted for surgery.
About Knee Replacement Surgery

Why do I need a knee replacement?

Most people have a knee replacement because the cartilage (or cushioning) between the bones in their knee has worn away. This causes the bones to rub against each other, which then causes pain and stiffness in the knee.

The pain might be keeping you awake at night. It may be causing you to cut back or stop doing your normal, everyday activities. You may have tried other treatments like medicine and exercise, but the pain and stiffness didn’t get better or got worse.

A knee replacement means that the damaged knee joint is taken out and replaced with parts made of metal, plastic or ceramic. The pain should stop or be much less. Your knee should have more movement with the new parts.

What types of knee replacement surgery are there?

There are 3 types of knee replacement surgery. Your surgeon will tell you which type you need.

1. *Total knee replacement*: The entire knee joint is taken out and replaced with new parts.

2. *Partial knee replacement*: Only the most diseased or damaged part of the knee is taken out and replaced with new parts.

3. *Knee revision*: The parts used to replace the knee have become damaged or loose and have to be taken out and replaced with new ones.

There are many types of knee replacement parts. The type you need depends on the condition of your knee, your age, weight, and the activities you like to do. Your surgeon will speak with you about the type that is best for you.
Front View

Metal thigh bone
Plastic shin bone
Metal shin bone

Side View

Plastic kneecap
Does the surgery have risks?

While knee replacements are usually safe, there are some risks. Your surgeon and healthcare team will talk to you about the risks. Some of the risks of surgery and what’s done to decrease them are listed below:

- **Infection:** Germs can enter your body from anywhere (e.g., teeth, skin, or throat) and cause an infection. Antibiotics are given before and after surgery to prevent infection. Make sure to tell your surgeon or Case Manager if you have or think you have an infection.

- **Blood clots:** A blood clot happens when blood collects into a clump. You’ll be given a blood thinner to help prevent a blood clot. Another way to prevent a blood clot is to get up and move around as soon as possible after surgery. A blood clot can be serious if it moves to the lungs. Make sure you tell your surgeon or Case Manager if you’ve ever had a blood clot.

- **Heart attack, breathing or lung problems, stroke, allergic reaction to medicine, or death:** These are risks with any surgery. You and your healthcare team will work together to lower your risk.

- **A break in the bone around your new joint:** You may need to put less weight on the leg or have to have another surgery.

- **Nerve damage, bleeding, or injury to a blood vessel:** You may notice a loss in feeling or movement after surgery. Be sure to tell your healthcare team about any changes.

- **Knee stiffness:** It’s important to do your exercises to prevent this. You may need another surgery to improve the bend in your knee if it stays stiff.

- **The new knee parts become loose:** Your new knee joint may loosen over time. It’s important to go to all your follow-up clinic visits after surgery. Make sure you tell your doctor if you have any new pain in your knee. You may need surgery again if your knee joint becomes too loose.
While Waiting for Surgery

- **Be as healthy as possible:** Eat healthy foods, drink lots of fluids, and get lots of rest and remember to exercise. Use Eating Well with Canada’s Food Guide to choose the type and amount of food you need for good health. Healthy eating before surgery will help you:
  - lower the chance of getting sick, which can delay your surgery
  - build up iron in your blood to give you more energy and help you heal faster
  - reach and stay at a healthy weight

- **Improve the health of your blood:** You may be asked to join a program to make your blood healthier. Studies show that people with healthy blood before surgery are less likely to need a blood transfusion during surgery, spend less time in the hospital, and recover faster.

- **Quit (or cut down) smoking:** It takes longer to heal when you smoke. If you need help to quit, call 1-866-710-SMOKING or go to www.albertaquits.ca. **Note:** Smoking is not allowed on hospital property.

- **Look after health problems before surgery:** This especially includes problems with your teeth, eyes, and bladder. Men need to also make sure any problems with their prostate are being managed. Make sure you fill your prescriptions and take them as prescribed.

- **Get dental work done:** You must have any problems with your teeth taken care of at least 6 to 8 weeks before surgery to lower your risk of infection after surgery. Get your teeth cleaned. **Your surgery will be delayed if you’re having problems with your teeth at the time of surgery.**

- **Stay active and do your exercises:** Keep doing your regular activities. Begin right away to build strength in your legs, arms and stomach by doing the Phase 1 exercises. Doing these exercises before surgery will help you get moving again after surgery.
☐ **Have help when you go home:** You’ll likely be in the hospital for 1 to 2 days. Here are some of the ways your support person (buddy, family or friends) can help you once you’re home:

- taking you to and from appointments
- staying with you if you live alone
- giving your blood thinner injection
- helping with your bandages
- doing housework and yard work, driving, shopping, and making meals

☐ **Arrange care:** If someone depends on you for care, arrange for someone else to give the care while you’re recovering.

☐ **Get your home ready:** Make your home as safe as possible:

☐ Arrange items in the kitchen and other areas of your home so you can reach them without bending too much or twisting your new knee.

☐ Adjust your bed so that the top of the mattress is 5 to 10 cm (2 to 4 inches) above your knee.

☐ Position your furniture so that you have space to move around safely using a walker or crutches.

☐ Remove loose mats or clutter that could cause you to trip or slip.

☐ Install handrails on stairways or arrange to have someone help you go up and down the stairs when you first get home.

☐ Make sure you have the right type of chair (see Managing at Home).

☐ If you have a tub with a shower door, take off the door and replace it with a shower curtain.

☐ Have all of the equipment you’ll need for your recovery ready 1 to 2 weeks before surgery (see Equipment You Need). Having the equipment ahead of time gives you time to practice with it before surgery.

☐ **Have the heavy housework done ahead of time:** Do laundry, vacuuming and other heavy work around the house before your surgery.

☐ **Plan for your food needs:** Stock up on groceries and make frozen meals.
Arrange a ride: You could be released from the hospital at any time of the day so make sure someone can pick you up with little notice.

Ask questions: Be sure you understand what’s being done and what you’re agreeing to when you sign the consent form for surgery. Read this guide before going to your Knee and Knee Replacement teaching class and write down your questions or concerns. Make sure you understand the risks of surgery.

Don’t use any lotions or creams: Stop using any kind of lotion or cream on your legs starting 5 days before surgery. Do NOT shave your legs 2 weeks before surgery.

Taking Medicine Before Surgery

Your doctors and Case Manager will tell you which of your prescription and non-prescription medicine to stop taking before surgery.

Tell your Case Manager before surgery if:

• you’re allergic to any medicine, latex, or metals
• there’s a change in your medicine (for example, your dose changes or you start a new medicine)
• your health changes

Make sure your healthcare team knows what pain medicine you take before your surgery.
Equipment You Need After Surgery

It’s important to use the equipment in the list below to protect your knee and lower your risk of falling after surgery and once you’re home. Have the equipment ready 1 to 2 weeks before surgery so you can practice with it. Keep the equipment for 3 months after surgery:

- crutches, cane, and walker
- reacher
- chair with arm rests
- sock aid, elastic shoe laces, and a long-handled shoe horn
- non-slip bath mat
- other equipment your healthcare team suggests:

- raised toilet seat
- toilet arm rests
- long-handled sponge/brush
- bathtub or shower seat, and bathtub transfer bench (if you take baths)
- movable tub grab bar (not recommended for fibreglass tubs)

You may be able to:

- buy or rent equipment from a pharmacy
- borrow equipment from a medical equipment loan program if there’s one in your area
- borrow equipment from friends or family as long as the items are in good working order, safe, and the right type for your height and weight
- borrow equipment from the Community Health Unit or Home Care
**My Checklist**

- All my dental work has been done.
- I am exercising every day to get ready for surgery.
- I have a buddy.
- I have someone to take me home from the hospital.
- All heavy housekeeping activities (vacuuming, laundry, etc.) have been done ahead of time.
- I have arranged for help after surgery with:
  - housework
  - making meals
  - yard work
  - other ____________________________
- I know what medicine I have to stop taking.
- I have stocked up on groceries.
- I have the equipment and walking aids I will need after surgery.
- I can easily reach the things I need at home.
- I have the space to move around safely with my walker or crutches at home.
- I have the right type of chair.
- My hospital bag is packed and my name is on all my things.
- I’ve packed my “When You’re Having a Knee Replacement” booklet.
- All my prescription and non-prescription medicine, herbal products, and inhalers are packed in their original containers.
Phase 1 Exercises to Build Your Strength

Begin these exercises now, and keep doing them after surgery. Exercise is part of a successful surgery and getting back to normal, everyday living.

Do them on both legs so both legs are strong. Do all exercises slowly and with control. Repeat each exercise at least 5 times. You can increase the number of times as long as it doesn’t hurt too much.

Exercise #1: Armchair push-ups

1. Sit on a steady chair, with your feet flat on the floor.
2. Push up with both arms to lift yourself a few inches off the seat.
3. Hold for a count of 3 to 5.
4. Slowly lower yourself onto the chair.
5. Repeat.

Exercise #2: Core stability

1. Lie or sit with back supported, bend both knees and keep your feet flat.
2. Tighten your lower stomach muscles by pulling your bellybutton down towards your spine.
3. Squeeze pelvic muscles that stop the flow of pee. Ask your physiotherapist to explain.
4. Breathe normally while holding for a count of 3 to 5.
5. Relax and repeat.
Exercise #3: Simple thigh squeezes

1. Keep kneecap and toes facing ceiling.
2. Pull toes up toward your head.
3. Tighten muscles in front of thigh and push back of knee into bed.
4. Relax.
5. Repeat.

Exercise #4: Harder thigh squeezes

1. Place a firm roll under your knee.
2. Straighten your leg, lifting your foot off the bed.
3. Hold for a count of 3 to 5.
4. Slowly lower your leg.
5. Repeat.

Exercise #5: Thigh lifts

(Note: Do this exercise only once you can do Exercise 4)

1. With one knee in a comfortable position, tighten your thigh muscles and lift your other leg keeping the knee straight.
2. Hold for a count of 3 to 5.
3. Slowly lower your leg to the bed.
4. Repeat.
Exercise #6: Knee straightening

1. Keep kneecap and toes facing ceiling.
2. Place a small roll under one ankle and push the knee down toward the bed.
3. Hold for a count of 30.
4. Relax.
5. Repeat.

Exercise #7: Knee bend

1. Bend your knee by sliding your heel along bed toward your buttocks (backside).
2. Make sure your knees face the ceiling.
3. Hold for a count of 3 to 5.
4. Slowly straighten your knee by sliding your heel back to your starting position.
5. Repeat.

Exercise #8: Sitting-knee bends

1. Sit on a steady chair with your feet flat on the floor.
2. Slowly slide your foot back as far as you can.
3. Hold for a count of 3 to 5.
4. Slowly slide your foot back to the starting position.
5. Repeat.

Exercise #9: Sitting-knee straightening

1. Sit on a steady chair with your thigh supported.
2. Lift your foot and straighten your knee.
3. Hold for a count of 3 to 5.
4. Slowly lower your foot to the floor.
5. Repeat.
When doing these exercises, stand straight, tuck in your stomach, and tighten your buttocks.

**Exercise #10: Standing knee bends**

1. Hold on to a table or counter for support.
2. Slowly bend your knee by lifting your heel towards your buttocks.
3. Hold for a count of 3 to 5.
4. Slowly lower your foot to the floor.
5. Repeat.

**Exercise #11: Standing knee lift**

1. Hold on to a table or counter for support.
2. Lift your knee, as if you were going up a step.
3. Hold for a count of 3 to 5.
4. Slowly lower your foot to the floor.
5. Repeat.

**Exercise #12: Mini knee bends**

1. Hold on to a table or counter for support.
2. Stand with your legs shoulder-width apart and your toes pointed forward.
3. Keeping your weight on your heels, slowly bend your knees, keeping your heels on the floor and your knees apart. Don’t bend the tips of your knees past your toes at the bottom of the bend.
4. Hold for a count of 3 to 5.
5. Slowly return to your starting position.
6. Repeat.
What to Bring to the Hospital

☐ This book.

☐ Personal care items like a toothbrush and toothpaste, hair brush, soap and shampoo, deodorant, shaving items.

☐ Loose-fitting clothing that’s easy to put on (e.g., robe, pajamas, pants, shorts, underwear, and socks).

☐ Adjustable, non-slip shoes that will give you good support and can be loosened if your feet swell.

☐ All the medicine you take, including all prescription and over-the-counter medicine, herbal products, and inhalers. Bring these in their original containers or in the pharmacy package. Don’t use your own medicine while you’re in the hospital. You’ll be given the ones you need to take while in hospital.

☐ Walker, crutches, dressing aids.

☐ Your CPAP machine if you use one.

There’s not much storage space in hospital rooms so please pack only what you need in a small overnight bag.

Alberta Health Services isn’t responsible for lost or stolen items. Don’t bring anything of value, such as jewellery or credit cards.

The Day Before Surgery

- Be sure you have everything you need for your stay in the hospital.
- Go over the agreement you signed with your healthcare team.
- Follow the eating and drinking instructions you received from your healthcare team.
- If you have questions, phone the clinic and speak with your Case Manager.
### On the Day of Surgery

#### Using the Sponge at Home

When you shower, use the sponge the clinic may give you.

1. Rub the sponge over the skin in the shaded areas in the picture.
2. Rub for 3 minutes, until it’s foamy.
3. Rinse, then towel dry.

Phone your Case Manager if you have any questions.

#### When You Get to the Hospital

A nurse will check you in, make sure that you’ve followed all instructions you were given, and get you ready for surgery. Tell the nurse or doctor of any changes in your health since your last visit to the clinic.

Before you go into the operating room, an intravenous (IV) will be put into a vein (usually in your hand or arm). Medicine and fluids are given to you through the IV during and after surgery.

You will also meet the doctor (anesthesiologist) who will give you medicine to control pain during surgery.

Someone may stay with you until you go into the operating room.
In the Operating Room

Once you’re in the operating room, you’ll see different types of equipment. This equipment is used to closely watch your condition during surgery. This includes a machine to monitor your heart, a cuff to monitor your blood pressure, and a sensor that’s attached to your finger to monitor your oxygen level.

A plastic tube, called a catheter, may be placed in your bladder to drain urine so that you don’t have to go to the toilet.

You’ll be given one of these anesthetics:

1. **Spinal anesthesia:** You won’t have any feeling in the lower part of your body. You’ll also be given another medicine so that you’ll be sleepy during surgery. This type of anesthesia is used more often because it doesn’t make you feel sick to your stomach very often and you’re able to get up sooner after surgery. The feeling in the lower part of your body will start to come back slowly after surgery.

2. **General anesthesia:** Medicine is given to make you sleep during surgery. A tube is passed through your mouth and into your windpipe to help you breathe. The tube is taken out once you’re awake and breathing on your own.

In the Recovery Room

You’ll go to the recovery room after surgery. Here, a nurse will check the blood flow and feeling in your legs. The nurse will also:

- check your breathing, heart rate, temperature, and blood pressure
- ask about your pain level
- have you take deep breaths
- have you do foot and ankle exercises
In Your Hospital Room

Once you’re in your hospital room, your nurse will check your breathing, heart rate, temperature, blood pressure, and the blood flow in your leg again. You’ll still have an IV.

Your nurse will show you where the call bell is and how to use it to call for help. The side rails on your bed will be up for your safety until the effects of the anesthetic have worn off.

You’ll be reminded to breathe deeply and cough often to prevent lung problems after surgery.

Your nurse or physical therapist will help you change your position in bed, get out of bed, sit at the edge of the bed, sit in a chair, and begin walking for the first few times after surgery. Don’t try to change your position or get out of bed on your own.

You’ll stand and take some steps on the day you have surgery.

You’ll be able to have visitors once you’re settled into your hospital room.
**After Surgery**

**Managing Pain after Surgery**

You can expect to have pain after surgery, even if you’ve been given medicine for pain. It’s important that your pain is well managed so that you can stand, walk, and start your physical therapy.

**How You Can Help Manage Your Pain**

Tell the nurse when you’re feeling pain and ask for pain medicine. If possible, take pain medicine 30 to 45 minutes before your physical therapy sessions, so it has time to work.

Tell your surgeon or nurse if the pain medicine isn’t managing your pain or if you think you’re having side effects.

Ask for ice to put on your knee and for pillows to keep your operated leg raised to help lower the pain and swelling.

**Pain Scale**

You’ll be asked to rate your pain level using this scale. The number you choose helps your nurse or surgeon know how well the pain medicine is working for you.

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<tr>
<td>No Pain</td>
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<td>Worst Pain Possible</td>
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Tell your nurse if your pain reaches a 4 or isn’t being helped by the medicine. Don’t wait until the pain is bad.
Deep Breathing, Coughing, and Moving after Surgery

- You’ll have to breathe deeply and cough at least once an hour after surgery to clear your lungs.
- You’ll be shown foot and ankle exercises to do once every hour to help prevent blood clots.

Preventing Blood Clots

You’ll need to take a blood thinner after surgery to lower the chance of getting a blood clot. Your surgeon will decide how long you should be on a blood thinner. You’ll be given a prescription for a blood thinner to take for a few weeks after you go home. If the blood thinner is given by needle, your nurse will show you how to give the injection before you leave the hospital.

Replacing Blood Lost during Surgery

Everyone loses blood during knee replacement surgery. Losing too much blood may leave you feeling dizzy, tired, short of breath, sick to your stomach, and you may have a headache.

Losing too much blood can slow your healing and recovery. Your surgeon may start you on iron pills or give you a blood transfusion to build up your blood levels.

Diet

It’s important to eat healthy foods and drink lots of fluids after your surgery. After surgery, you’ll get fluids by IV until you can eat and drink enough on your own.

Once you’re able to eat and drink, you can start eating your regular diet. Follow the guidelines in Canada’s Food Guide. If you aren’t eating well, ask your healthcare team about taking a nutrition supplement.

Healthy eating after surgery helps you feel better sooner because it:
- helps repair muscles and tissues
- builds up the iron in your blood
- gives you the strength and energy to do activities
Managing Your Bathroom Needs

To prevent constipation:

• drink at least 8 glasses (2 litres) of water every day
• eat foods with fibre
• walk
• do your exercises every day

If you’re constipated, a nurse will offer you something to help your stools pass. It’s important to tell the nurse when you’ve had a bowel movement.

If a tube was inserted to drain your urine during and after surgery, it will be taken out the morning after surgery. The nurses will make sure you can urinate (pass water) without the tube.

Washing, Brushing, and Other Personal Needs

You’ll be expected to do your personal hygiene on your own. Please ask your nurse if you need help. Make sure all the items you need are within reach before you start.

You’ll be allowed to shower after the bandages around the area of surgery are changed for the first time or when your surgeon tells you it’s okay to shower. Don’t put any lotions or creams on your operated leg for the first 6 weeks after surgery.

Rest and Activity

You need both rest and activity to recover. You’ll tire easily the first few weeks after surgery. You may find that your normal sleep patterns also change. Let the way you feel be your guide to what you can and can’t do.

Stop what you’re doing and rest when you begin to feel tired. It’s better for you to do shorter activities (like walking) more often, rather than doing one long activity. Remember to do your foot and ankle exercises every hour.
Leg Swelling

Your leg will swell as you become more active after surgery. It’s normal for your knee to be warm and swollen for many weeks after surgery.

- To control the swelling, don’t sit for more than 30 minutes at a time.

- Lie on your back, with your operated leg resting on pillows so that your foot is above the level of your heart. **Keep your leg as straight as you can. Make sure the pillow isn’t under the back of your knee.**

  Raise your operated leg this way 2 to 3 times a day for 45 minutes each time.

- Put a cold pack on warm or swollen areas after you’re done your exercises. Use crushed ice in a bag, an instant cold pack, or a bag of frozen peas or corn. Make sure you have a thin towel between your skin and the cold pack to protect your skin. Don’t leave the cold pack in one place for more than 20 minutes at a time.

  **Tell your nurse or surgeon right away if you have pain in your calf or chest.**

Rehabilitation

You’ll be helped to move from your bed to a chair. You may be standing and walking within 4 hours after surgery. Your activity level will go up every day. You’ll also begin a program to help improve the flexibility or range of movement in your new knee and make the knee stronger.

- Most people are allowed to put as much weight on the operative leg as they can tolerate. Your healthcare team will let you know if your surgeon wants to limit the amount of weight you can put on the operated leg.

- Your physical therapist will teach you to use a walker. You’ll also be shown the exercises you must do. **Use your walking aid until your surgeon or physical therapist says you can stop.**

- Your healthcare team will check how well you can do the exercises on your own and move around. They will also see if you have the skills you need to manage at home. The team will use the results to recommend when you should leave the hospital and what community services you may need at home.
Movements to Avoid After Surgery

While you should increase your activities after surgery a little at a time, there are some movements you should not do.

- Don’t jar or twist your new knee suddenly. Make sure you don’t bend it in an uncontrolled way.
- Don’t cross your legs.
- Don’t sleep with a pillow under your knee. It can cause a permanent bend in your knee or put pressure on blood vessels in your leg.

Twisting and Turning

- Always keep your toes and your upper body facing the same direction.
- Take small steps when turning, instead of twisting or pivoting on your leg.
Going Home

You’ll go home 1 to 2 days after surgery if the doctor think’s you’re ready. Before you are ready to go home, your healthcare team will check whether you’ve met the goals for your new knee:

- You can get into and out of a bed and chair without help.
- You can stand and walk safely with your crutches or walker.
- You can go up and down stairs safely.
- You can walk the distance you will need to walk in your home.
- You can do your home exercises and daily living activities safely.
- You know what movements are safe and not safe for your operated leg (see “Movements to Avoid After Surgery”).
- You’re eating and going to the bathroom normally.
- Your incision is healing. If you have to change your bandage, you and your buddy will be shown how. Note: It’s normal to lose some feeling in the skin around the incision. The feeling should be back in a few months.
- Your pain is under control. You’ll be given a prescription for pain medicine. If you get constipated, talk to your pharmacist about over-the-counter stool softeners.

Your healthcare team may decide you need more help before you can go home.

How you do after your surgery depends mainly on you.

- **Do your home exercises regularly.** Increase the number of times you do them each day. The sooner your leg muscles become strong enough, the sooner you can get back to your normal activities.

- **Take pain medicine** at least 30–45 minutes before exercising if you find the exercises make you too sore.

- **Use your walking aids** until your surgeon or physical therapist tells you that you can stop.

- **Walk often** but don’t go further than you can manage safely and comfortably. Short walks done often are better than a single long walk. Have someone come with you on the first few walks in case you run into a problem. Make sure to bring your cell phone in case you need to call for help.

You may still have some discomfort for a long time after surgery. If so, talk to your Case Manager about the best way to manage it.
Managing at Home

You’ll learn new ways to do your everyday activities safely and lower the risk of injuring your new knee while you’re recovering. Do a little more at a time, being careful not to do any movements or positions that could injure your knee (see “Movements to Avoid After Surgery”).

Sitting in a Chair or on the Toilet

Chair: Choose a sturdy chair with a firm seat and armrests. You can raise the seat height by adding a firm cushion. Don’t sit on low or soft chairs and couches. Don’t use chairs that have wheels or that rock or swivel.

Toilet: You may need a raised toilet seat and toilet armrests. Make sure the toilet paper is within easy reach.

To sit:
1. Back up until you feel the chair or toilet seat at the back of your legs.
2. Slide your operated leg forward slightly.
3. Bend both knees and lower yourself gently onto the chair or toilet, using the armrests toilet armrests, countertop, or the sink for support.

Do the reverse to stand.

Don’t use your walker to raise yourself from the chair or toilet. Always push up with your hands from where you’re seated.
Getting In and Out of Bed

- Make sure the top of your bed is 5 to 10 cm (2 to 4 inches) above your knee.
- Don’t use soft mattresses or waterbeds.

Support your operated leg with pillows when lying on your other side.

To get into bed:

1. **Sit** on the bed the same way you would sit on a chair.
2. **Slide** your buttocks back until your knees are on the bed.
3. **Pivot** on your buttocks as you lift your legs onto the bed. Remember to keep your legs apart.

Do the reverse to get out of bed.

Getting Dressed

Use special equipment to help dress yourself (for example: a reacher, long-handled shoehorn, dressing stick, elastic shoelaces, or sock aid).

- Choose loose-fitting clothing, including socks.
- Wear low-heeled shoes with elastic laces.
- Dress your *operated leg first* and undress it last.
Bathing

You won’t be able to sit in the tub to bathe or stand to shower for about 3 months.

You should bathe from a sitting position at the sink, in the tub, or in a walk-in shower with a chair for the first 3 months. Have someone help you get in and out the tub and with showering until you can do this safely on your own.

Once you’re in the tub, don’t reach forward for the faucet. Instead, have someone turn the faucet on and off. If you’re steady enough, you can stand up to turn it on and off yourself.

To get into the tub:

1. Back up slowly and carefully until you can feel the tub against the back of your legs. Hold onto the tub grab bar for support and, with your other hand, reach back for the bath seat, and lower your buttocks onto it.

2. Pivot on your buttocks and lift your legs one at a time, up and over the side of the tub.

Use a hand-held showerhead, long-handled sponge, and soap-on-a-rope so you don’t lean forward.

Do the reverse to get out of the tub.
Showering

Have someone help you get into the shower and keep your walker steady, if needed. If there’s a grab bar on the wall, use it instead of the walker. A grab bar is more stable. A grab bar is more stable.

To get into the shower:

1. **Walk** to the lip of the shower and turn so that you’re facing away from the shower stall.
2. **Reach back** with your hand for the back of a seat placed in the shower, leaving your other hand on the walker.
3. **Move** your operated leg forward.
4. **Sit** on the seat.
5. **Lift** your legs over the lip of the shower stall and turn to sit facing the faucet.

Do the reverse to get out of the shower.

**Note:** You can stand in the shower if it’s too small for a seat and you’re steady on your feet. Install grab bars and use a rubber bath mat to prevent slipping.

Doing Laundry

- Have someone do laundry for you. If this isn’t possible, do smaller loads. Make sure you carry your loads in a plastic bag, backpack, or wheeled cart.
- Use a reacher to get your laundry in or out of front-loading machines.
- Sit on a high stool if ironing.
Getting In and Out of a Car

- You may find a higher vehicle easier to get in and out of (depending on your height).
- Avoid small cars, low bucket seats, and vehicles that you have to step up into, if you can.
- Sit in the front seat whenever possible. Your therapist will tell you how to do car transfers depending on the car.
- Have your driver park the car about 1 metre (3 feet) away from the curb. **Have the driver slide the passenger seat back as far as it will go.** You may find that placing a large plastic bag on the seat makes sliding into and out of the car much easier. You can also put a pillow on the seat to make it higher if needed.

To get in a car:

1. **Back up slowly** and carefully with your walking aid until you can feel the edge of the car against the back of your legs.
2. **Hold onto** the back of the seat and the dashboard or car door for support. **Slide** your operated leg forward slightly, bend both your knees, and sit.
3. **Slide** your buttocks back toward the middle of the car. Pivot on your buttocks as you lift your legs one at a time into the car.

Do the reverse to get out of the car.

Driving

Your surgeon will tell you when it’s safe to start driving again. Most people can drive starting 6 weeks after surgery. Your healthcare team will give you information about transportation services in your area.
Working in the Kitchen

- Keep the items you use often within easy reach. Use a long-handled reacher if items are out of reach. Try not to store food on low shelves so you don’t have to bend to reach them.
- Use prepared meals, frozen meals, a service like Meals on Wheels, or order in food.
- Use the oven only if you can do so without twisting your knee. A microwave or stovetop is best.
- Slide objects along the countertops instead of lifting them.
- Use a wheeled trolley or cart to move items when using your walking aid.
- Carry things in an apron with large pockets, a waist pouch, backpack, or a bag attached to your walker.
- Sit on a high stool when working at the counter.
- Use containers with tight-fitting lids to move foods and fluids (like a thermal mug with lid) to prevent being burned.

Shopping

- Have someone help you with shopping.
- Shop at stores that have elevators and parking that’s close by.
- Bring your walking aid with you.
- Bring your reacher to pick up items from the lower shelves.
- Use a backpack to carry the things you buy.
- Buy canned or frozen goods to cut back on the number of times you have to shop.

Note: Some grocery stores will deliver. Check with the store you shop at.
Doing Housework and Yard Work

- You should be able to do light housekeeping, such as dusting and washing dishes.
- Have someone help with heavy work, such as vacuuming, washing floors, changing bed sheets, cutting the grass, and shovelling snow.
- Take out small amounts of garbage at a time or have someone take out garbage for you.
- Hire help if possible.

Having Dental Work

Make sure you speak with your surgeon or Case Manager about using antibiotics before any dental work.

Activities and Sports

Some activities and sports are harder on the knees than others. Talk to your surgeon about when you can start doing the ones you enjoy. As a guideline, you should walk every day, beginning with short walks taken often. Increase your distance a little at a time and be careful not to overdo it. Be careful not to fall and injure your knee.

You may feel some stiffness in your new knee, especially when doing activities or sports where you have to bend your knee. One of the goals of surgery is to improve your knee’s flexibility or range of movement and reduce the stiffness. How much knee movement you have often has to do with how much stiffness you had before surgery.

You may sometimes feel clicking in your knee when you bend it or when walking. This should lessen over time, as the muscles around the knee get stronger. Kneeling on a new knee is usually uncomfortable. Don’t kneel on the knee until your surgeon tells you it is safe to do so.

Travel

Your new knee may set off the metal detectors at the airport. Before you go through the security check, tell the security agent you had a knee replacement and have metal parts in your knee.
Activity Guidelines

Ask your surgeon about any sports or other activities you want to do. The following are only guidelines for what you may do.

The First 3 Months after Surgery

☐ Walking
☐ Phase 1 exercises
☐ Swimming and other pool exercises: Careful not to do any twisting motions such as a knee kick. Don’t use pool until incision is completely healed.
☐ Cycling: the seat must be set high enough so that you don’t have to bend your knee too much.
☐ Phase 2 exercises: start when your Case Manager or physiotherapist tells you to.

After 3 Months

☐ Low-impact fitness exercises that don’t involve jumping, twisting, quick starts or stops, or other movements that put sudden force on your knee.
☐ Walking on a treadmill and light hiking
☐ Cycling on a regular bicycle. Adjust the seat height as often as you need to let your knee bend comfortably.
☐ Golfing
☐ Slow, gentle dancing
☐ Gardening: Use raised beds or long-handled tools so you don’t kneel on your new knee.

Activities NOT to Do

⛔ Do not lift and push heavy objects (more than 25 lbs. or 11 kg)
⛔ Do not do any activities involving jumping, twisting, quick starts or stops, or other movements that put sudden force on your knee
⛔ Do not do contact sports
Safe Sex Positions After Knee Replacement

Many people have questions about intimate relations after a knee replacement. While it’s usually safe for your knee joint about 4 to 6 weeks after surgery, you also have to feel ready and be comfortable.

For the first 3 months you have to protect the new joint. These pictures show you the positions that are safe and the ones that aren’t safe for your new knee joint.

- Tell your partner what’s comfortable or if a position causes pain.
- Make sure you’re comfortable before you start. Using pillows may help.
- No sudden movements.
- Make sure your partner doesn’t put their full weight on your new knee joint.

Safe Positions for the Knee Joint

![Safe Positions for the Knee Joint](image)

Positions NOT Safe for the Knee Joint

- Knee bends too much.
- Too much pressure on knee.

*Illustrations from Returning to Sexual Activity following Joint Replacement Surgery (Vancouver Coastal Health, 2013) and Sex after Joint Replacement Surgery (London Health Sciences Centre, 2013)*
When You Need Medical Help

Call 911 or have someone take you to the nearest emergency department if you have:
• pain in your chest
• trouble breathing or are short of breath

Call your Case Manager if:
• you have more pain, swelling, and tenderness in your leg (lying down with your leg raised in a straight position for at least 20 minutes doesn’t help)
• your incision becomes red, hard, hot, and swollen, or is draining
• you have redness or pain in your lower legs, even when resting
• you have a temperature over 38.5 °C or chills
• you have a painful “click” in your knee or you suddenly have less movement in your knee
• your leg begins to curve outward, around or below your knee (bow-legged)
• your leg begins to curve inward at the new knee so that when you stand, your knees are together but your ankles are apart (knock-kneed)
• you have blood in your stool, urine, or in the fluid you cough up
• you have a nose bleed that won’t stop
• you have a lot of bruising that doesn’t seem to be going away. (Note: Bruising is normal above and below the incision for 2 to 3 weeks after surgery).

If you can’t reach your Case Manager or someone else on your healthcare team, call your family doctor or call Health Link at 811.

Call your family doctor if:
• you have diarrhea that doesn’t stop after a few days
• your prescription medicine changes after surgery
• you have any other medical concerns not related to your surgery

Please make sure you tell your Case Manager if you see your family doctor or go to the emergency department about anything related to your knee surgery.
Common Questions

How long before I can stop using my walker or crutches?
You must use your walking aids until your healthcare team says you can stop. Most people need to use walking aids for the first 6 weeks after surgery.

When can I drive?
Most people aren’t allowed to drive for 6 weeks after surgery. Your surgeon will tell you when it’s safe to drive. To drive safely, your strength and reflexes need to be as good as before your knee surgery. If you’re in an accident, your insurance may not cover you if you’re not safe to drive.

Do I need to see my family doctor after surgery?
Your family doctor will be sent a report about your surgery and your recovery. You don’t need to follow-up with your family doctor unless your surgeon tells you to. If you have a concern or problem related to your knee surgery, call your Case Manager.

Do I need to tell healthcare providers about my new knee?
Be sure to tell your dentist or other healthcare providers that care for you that you had knee replacement surgery.

When can I travel?
You shouldn’t travel long distances in the first 3 months after surgery. This is because sitting for too long while travelling increases the risk of blood clots. Speak with your Case Manager or surgeon about planned or unexpected travel you do in the 3 months after surgery.

When can I go back to work?
When you can go back to work depends on how well and how quickly you heal after surgery and the kind of work you do. Your surgeon will tell you when you can go back to work.
Will I need physical therapy once I am home?
You must keep walking and exercising when you go home. Whether or not you need physical therapy will depend on how well you recover on your own. Your healthcare team will tell you if you need physical therapy after you leave the hospital.

I have a click in my operated knee. Should I be worried about it?
Do not worry about the click unless it hurts. Clicking is quite common and usually lessens or goes away over time.

The outside of my knee is numb. Is this normal?
It is normal to have numbness at first. It should lessen or go away over time.
Phase 2 Exercises to Improve Your Recovery After Surgery

Start these exercises after you have seen your surgeon or physiotherapist.

Exercise is important after surgery to make your new knee stronger and more flexible and to help prevent blood clots. The exercises may feel uncomfortable at first, but exercising will help you to get back to your normal everyday activities sooner.

Your healthcare team may suggest you add some or all of the exercises below to the ones you were doing before surgery.

Remember to slowly increase the number of times you exercise each day, how often you repeat each exercise, and the amount of pressure you can put on your new knee.

Your team will tell how often to do the exercises, how many times to repeat each one, and how much force or pressure you can put on your new knee.

Do the exercises on both legs to make them equally strong and flexible. Do them slowly and with control. Make sure not to force your new knee into a position that causes you pain or discomfort.

Exercise #1: Knee straightening with band

1. Sit in a steady chair and put the elastic loop around both ankles.
2. Lifting one foot, straighten your leg while keeping the other foot on the floor as you stretch the elastic loop.
3. Slowly lower your foot back to the starting position.
4. Repeat.
**Exercise #2: Knee bending with band**

1. Sitting in a steady chair, put the elastic around both ankles.
2. Put one foot on a stool and pull the opposite foot back under the chair, stretching the elastic. Keep the other foot steady as you stretch the elastic.
3. Slowly return to the starting position.
4. Repeat.

**Exercise #3: Sit to stand**

- Use a chair with armrests if you need to use your arms at first while you build up strength in your legs.
- Use a pillow to raise the seat level if it is too low.

1. Sit on the front edge of a steady chair with your knees shoulder width apart.
2. Make sure your knees are lined up with your feet.
3. Slowly raise and lower yourself from the chair without using your arms.
4. Put equal pressure on your legs. Don’t lean forward at the waist.
5. Repeat.

**Exercise #4: Lying on stomach knee bend**

1. Lie on your stomach, with your legs straight.
2. Bend one leg, lifting the heel toward your buttocks.
3. Slowly lower your leg to the starting position.
4. Repeat.
Exercise #5: Lying on stomach knee stretch

1. Lie on your stomach and bend both legs up toward your buttocks.
2. Cross one leg behind the other at the ankle.
3. Use the heel on the outside leg to gently push the inside leg toward your buttocks.
5. Release and repeat.

Exercise #6: Sitting knee stretch

1. Sit with one leg bent and loop a towel around the ankle.
2. Using the towel, gently pull the heel toward your buttocks.
3. Hold for a count of 15.
4. Release and repeat.

Exercise #7: Straightening knee with band

1. Place one end of an elastic loop around a secure object and the other end around one thigh, keeping the knee bent slightly.
2. Hold onto a table or other steady object.
3. Slowly straighten the leg to stretch the elastic loop, keeping your heel on the floor.
4. Return slowly to the starting position.
5. Repeat.
Exercise #8: Step up, step down

1. Place a solid object 5 to 10 cm (2 to 4 inches) thick on the floor to use as a step.
2. Hold onto a table or counter for balance, and step forward and up onto the object.
3. Slowly step back down.
4. Repeat.

Exercise #9: Split squat lunge

1. Hold onto a table or counter for balance and move one leg forward.
2. Bend the forward leg and lean your upper body over the bent knee.
3. Hold for a count of 3 to 5.
4. Slowly relax and return to a standing position.
5. Repeat.

Exercise #10: Calf stretch

1. Stand facing a wall and place your hands on the wall.
2. Move one leg forward and bend it while keeping the other leg straight.
3. Slowly lean your hips toward the wall, until you feel a stretch in the back of the straight leg.
4. Hold for a count of 3 to 5.
5. Slowly relax the stretch.
6. Repeat.
Questions for My Healthcare Team

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<tr>
<th>Question</th>
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Appointments and Other Information

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### Expectations and Responsibilities of the Healthcare Workforce, Patients, and Families

Alberta Health Services is committed to providing a respectful environment in which everyone is committed to safe, quality care. We believe that when we work together and live our values, we honour our rights and responsibilities.

<table>
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<tr>
<th>Anyone who works for or volunteers for AHS is responsible for...</th>
<th>Everyone has the right to...</th>
<th>If you’re a patient or family member, you’re responsible for...</th>
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| • treating others with respect and dignity  
• being respectful and understanding  
• being prepared to hear, listen, and understand | • be treated with respect  
• be listened to and heard | • treating others with respect and dignity  
• recognizing that other patients may also need help |
| • using a calm tone of voice and non-threatening body language  
• reporting unsafe or potentially unsafe conditions  
• educating patients and families about their role in safety | • a safe physical, emotional, and psychological environment | • using a calm voice and non-threatening body language  
• reporting unsafe or possibly unsafe conditions  
• understanding your role in your safety and how you contribute to ensuring a safe environment |
| • giving information in simple language, and including patients and families in developing and following the care plan  
• communicating with your team—which includes the patient and family—by giving feedback and talking about concerns  
• knowing and respecting each healthcare team member’s role and scope of practice | • be part of a healthcare team (patients, families, and healthcare workforce) | • understanding your healthcare needs  
• letting your healthcare team know when you don’t understand, asking questions, and talking about concerns  
• understanding your role in your care plan |
| • sharing information relevant to patient care  
• giving timely responses to questions and concerns  
• maintaining confidentiality | • information to give or receive care  
• confidentiality | • giving relevant information to your healthcare team  
• maintaining patient confidentiality |
Website Resources

- Alberta Bone and Joint Health Institute: albertaboneandjoint.com
- Arthritis Society: arthritis.ca
- Canadian Orthopaedic Foundation: http://whenthurtstomove.org/
- Inform Alberta: informalberta.ca (for programs and services)
- MyHealth.Alberta.ca

For 24/7 nurse advice or general health information, call Health Link at 811.