

Preparation guide for a surgery ERAS^{MD}

Knee arthroplasty



Québec :::

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Thanks to

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Secretariat

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Diffusion

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Attention

This guide is intended for educational purposes. It is not a substitute for medical advice or advice from a health care professional and is not a substitute for medical care. Contact a qualified health care professional if you have any questions about your health care.

Traduction and adaptation of Guide de préparation à une chirurgie ERAS^{MD} : arthroplastie du genou, 2019

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This guide is designed to help you understand and prepare for your surgery. It will explain how you can play an active role in your recovery and give you daily goals to achieve. Before your group teaching and your pre-admission clinic appointment, you should read this guide with your loved ones.

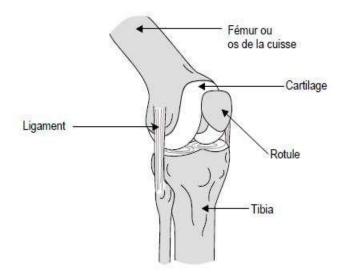
You should **bring this guide to all surgery-related appointments** and on **the day of surgery.**

Remember that you are at the heart of your rehabilitation. You are the main actor of your surgery.

What is osteoarthritis of the knee?

The knee joint is the joint that connects the femur (thigh bone), the tibia (leg bone) and the patella. It allows you to bend and extend your leg. It is held in place by ligaments, tendons and muscles. The bony surfaces are covered with cartilage, which is a very smooth tissue that allows the surfaces to slide against each other and stabilize the joint with the help of ligaments and muscles.





When cartilage is damaged, the joint becomes unbalanced and the damaged surfaces no longer allow for fluid movement of the joint. This results in pain, stiffness, inflammation and decreased function of the joint. The surfaces become rough and deformed. This is called osteoarthritis or joint degeneration.

There are several causes leading to the destruction of the knee joint:

- A fracture
- Bone deformity
- Inflammatory disease (e.g. rheumatoid arthritis)
- Insufficient blood supply to the joint (avascular necrosis)
- Infection
- Normal wear and tear related to aging

Over time, osteoarthritis of the knee causes pain in the joint that interferes with your regular activities and reduces your quality of life. When your doctor has not been able to improve your condition with non-surgical treatments such as specific strengthening exercises and medication, he or she may suggest knee replacement surgery.

What is a knee replacement?

This surgery consists of replacing the knee joint with a prosthesis to restore its functional capacities and give you a better quality of life.

There are two types of surgery depending on the wear and tear of your knee: unicompartmental knee replacement (UCP) and total knee replacement (TKR).



UCP is offered when only the inner side of the joint is damaged. It aims to replace only the damaged part with an artificial prosthesis while keeping the healthy side intact. It allows for a faster recovery and sometimes a shorter length of stay, but requires the same preparation and follow-up as total knee replacement.



TKR replaces the two damaged articular surfaces of the tibia and femur with artificial implants. The surface of the patella can also be replaced depending on the degree of wear found. The muscles and ligaments are then replaced around the prosthesis.

Trajectory of the user

When you are admitted to the hospital for your knee surgery, you enter a Rapid Postoperative Recovery Program (ERAS®) and have been since 2019. The goal of this program is to get you back on your feet quickly and safely.

Since 2022, there has been a second pathway, called fast-track, which stems from the ERAS® program offered by the Cité-de-la-Santé. It allows users, targeted according to specific medical criteria, to return home early and safely within 24 hours after surgery.

Here is a summary of the steps that await you in preparation for your surgery.

At the orthopedist's office

• I receive my surgery preparation guide and my orthopedist completes the paperwork for my surgery.

At home, waiting for surgery

- I carefully read my preparation guide for surgery with my loved ones.
- I write down my questions and comments at the end of the guide.
- I begin my preparation for surgery and start my exercises before the operation (page 13).
- I begin to organize my preparations for my return home after surgery. If necessary, I ask for help from my family and friends to:
 - Prepare meals.
 - Do housework and shopping upon my return.
 - Arrange for help with my medical transportation upon discharge.
 - Determine who will accompany me to my appointments.
 - Arrange for someone to stay with me at home if necessary
- I wait for the call from the pre-admission clinic to schedule my appointment.

Before appointments (group teaching and pre-admission clinic)

- I prepare my medical history.
- I reread my surgery preparation guide and finalize my questions.
- I make sure that I am accompanied by a family member at all my appointments.

At the pre-admission clinic appointment

- I bring my surgery preparation guide and my medication list.
- I arrive on time and accompanied.
- I ask my questions and take note of the instructions.
- I discuss my preparations for going home with the nurse.
- I ask the nurse for advice if necessary.

After the pre-admission clinic appointment

- I continue to prepare for surgery and make arrangements for my home (page 15).
- I make sure I follow all the nurse's instructions.
- I do my breathing exercises (page 27) and physical therapy exercises (page 13).
- I do the other tests and attend the other appointments if the nurse tells me to.
- I continue to prepare for my return home and pick up the recommended equipment (page 17).
- I call the pre-admission clinic if I have any problems or questions (page 50).
- I start my checklist (Page 10).

For **Laval users**, the CLSC administrative officer will send you, by e-mail or by **mail**, documentation concerning the services offered once a surgery date has been confirmed. * If you have not received documentation from the CLSC **one week** before the surgery, contact the Front Line Reception (APL) (page 50).

The day before the surgery

- I make sure I follow the instructions (fasting time and beverage page 21).
- I check the availability of my loved ones to offer me support when I return home.

The day of the surgery

- I bring my surgery preparation guide.
- I make sure to follow the instructions (fasting time, beverage and medication page 22).
- I complete my checklist (page 10).
- I arrive on time and am accompanied by one adult.

What to bring to the hospital?

| This guide to preparing for surgery. |
|--|
| Your valid health insurance card. |
| Your hospital card. |
| Medication list provided by your pharmacy. |
| Your medications, drops, creams and pumps in their original containers (do not |
| take them on the ward without first talking to the nurse). |
| 2 packs of chewing gum (sugar-free and appropriate if you wear dentures). |
| Practical clothing (short pants with elastic waist, loose pants with elastic waist). |
| Shoes that are easy to put on (shoes with velcro or elastic laces) and safe (shoes |
| closed at the back, wide enough and adjustable to allow for swelling, non-slip soles |
| and flat heels). "Sneaker" style, |
| ** No « flip-flops ».** |
| Breathing exercise device (Respirex) given at the group meeting. |
| Pencil and notebook. |
| Toothbrush and soap. |
| If you wear glasses, contact lenses, hearing aids or dental prostheses, bring the |
| appropriate kits or containers and identify them with your name. |
| Your CPAP if you have sleep apnea. |
| Plan to have a walker for the day of your discharge from the hospital. Your family |
| member can bring it on the day of your discharge. |



Please leave all jewelry and other valuables at home. The hospital is not responsible for lost or stolen items (cabinets are not locked). Rings will need to be cut off if not removed.

Lifestyle habits

In order to be optimally prepared for your surgery and to have a good recovery potential postoperatively, it is important to have good lifestyle habits.

Power supply

Protein promotes better healing and optimizes recovery. Without completely changing your diet, here are some suggestions to increase your protein intake.

| | | Add this | To that |
|--|---|--|---|
| | | Skim milk powder or protein powder supplement (Nestlé Beneprotein) | Cooked cereals, scrambled eggs, sauces, mashed potatoes, soups, cream sauces, milks, milkshakes, custards, etc. |
| | | Milk (2% or 3.25% fat) | Hot cereals, soups, casseroles, hot chocolate (instead of water) |
| | | Soy beverage | Smoothies, soups |
| | | Greek yogurt | Fresh or canned fruits, vegetables, potatoes, rice, pancakes, casseroles, stews, soups, vegetable or fruit dips |
| | | Hard-boiled eggs | Sandwiches, salads, vegetables, potatoes, sauces and soups |
| | | Peanut butter or nut butter | Sandwichs, salades, légumes, pommes de terre, sauces et soupes. |
| | | Tofu | Milkshakes, soups, casseroles or stir- fries, salads |
| | To supplement your diet, you can also take a supplement such as Ensure or Boost | Canned peas or beans, legumes and lentils (depending on tolerance) | Casseroles, soups, stews, salads, rice, pasta and dips |
| | | Seeds and nuts (according to tolerance) | Salads, cereals, ice cream, yogurt |
| | | Pieces of cooked meat, poultry, seafood or fish | Salads, soups, scrambled eggs, quiches, baked potatoes, pasta |

Tobacco

Smoking increases the risk of respiratory problems after surgery, interferes with wound healing and pain management. It is recommended that you quit smoking or reduce your tobacco consumption **2 to 4 weeks before surgery.**

In order to help you in your efforts, do not hesitate to contact:

- Center de services ambulatoires de Laval
 450 978-8300, option 1, ext. 13169 (For people living in Laval).
- Pharmacist or family doctor.
- Smoking Cessation Centre nearest you 1-866-JARRETE (527-7383)
 Jarrete.gc.ca



Alcohol

Alcohol can interact with certain medications and increase the risk of bleeding and postoperative complications. You must stop drinking alcohol **7 days before surgery.**

In order to help you in your efforts, do not hesitate to contact:



- Alcochoix+ Laval
 450 622-5110, ext. 64005 (For people living in Laval)
- www.alcochoixplus.gouv.qc.ca

Physical activities

Staying active and exercising helps keep your body in the best possible condition before surgery. If you already exercise, keep up your good habits. If not, slowly start adding exercise to your daily routine. Exercises do not have to be complex to be effective. A simple 15-minute walk each day and the exercises on the following pages are sufficient.

Also refer to page 27 to start breathing exercises a few days before your surgery. The spirometry machine will be given to you at your group meeting.



Exercises to do before surgery

All exercises are to be performed at a rate of 20 repetitions twice a day.

Mobilization of the ankles

Sitting in bed with your leg extended, perform the following movements with your ankle:

- Point the foot, then pull the foot toward you.
- Rotate the foot so that the sole is facing inward, then outward.
- Rotate the ankle in both directions.
- Repeat all movements. To be done on both ankles.





Crushing the knees

- Lie on your back with your legs extended.
- Try to crush your knee against the bed by contracting your thigh muscles and pulling your foot towards you.
- Hold the position for 5 seconds.
- Release and repeat. To be done on both legs.



Rear bridge

- Lie on your back with your knees bent at 90 degrees.
- While squeezing your buttocks, lift your pelvis off the bed as high as possible.
- Hold the position for 5 seconds.



Bend the hip

- Lie on your back with your legs extended.
- Bend the hip to operate as far as possible without the help of your hands, then complete with the help of your hands at the end of the movement.
- Hold the position for 5 seconds.
- Extend the leg completely on the bed and repeat.
- You can use a slippery surface (e.g. a plastic bag) to put under the leg to be operated on to facilitate the exercise.





Seated push-up

- While sitting in a chair, push on the armrests with your hands to lift your buttocks off the seat.
- Hold the position for 5 seconds.
- Gently sit back in the chair, controlling the descent with your arms and repeat.



Planning

It is important to plan and organize your return home. In fact, you will receive information at the group meeting before your operation. You may need help from friends or family with meals, laundry, personal hygiene and errands.

To better prepare your return home:

- Have a supply of food
 - Frozen or pre-prepared meals.
 - Community services available in your neighbourhood (e.g. Meals on Wheels).
 - Merchants (pharmacy, grocery store, etc.) for telephone ordering and delivery services.
- Plan to do a thorough cleaning and laundry before your surgery so that when you return home there is not too much to do. If necessary, pull up a chair near the washer to rest. You will do the laundry in small steps after the surgery.
- Plan to have someone else do the outside maintenance (snow, lawn, etc.). In winter, make sure your driveway is safe.

Normally, patients are discharged the day after surgery and return home afterwards.

If you have any concerns regarding your return home, speak to the nurse at the preadmission clinic during your appointment.

Transport

Make sure you have someone to pick you up when you leave the hospital. Don't forget they must bring your **walker**.



You will also need help **getting to medical appointments** for **at least 6 weeks**. Find people who can help you.

Home Adaptation

- Remove small rugs that are not attached.
- Clear circulation areas (stairs, hallway) by removing small furniture, objects placed on the floor, wires, plants, decorative objects that would impede the passage of your walker.
- Provide adequate lighting for your movements at night and during the day. If necessary, install a night light.
- Install a non-slip mat at the bottom of the bath and/or shower and at the exit of the bath/shower to avoid falling when taking your bath/shower. The bath exit mat should be stored on the edge of the tub when not in use.
- Place all items you use regularly at an easily accessible height.
- Consider sleeping on the side of the bed near the door to make it easier to get around.
- Make sure there is enough space to get to your bed. Please allow 60 centimetres (24 inches).
- Make sure that animals will not be a nuisance when you move around, as they may cause you to lose your balance.
- Make sure that the staircase leading to the main rooms (bedrooms, bathroom) is equipped with a handrail that is firmly attached.



Make sure you have a wireless phone available at all times in case of an emergency when you return home.

Technical aids needed to return home

 Walker with wheels in front and skis in the back (No rollator, as it lacks stability and increases the risk of falling)



Cane

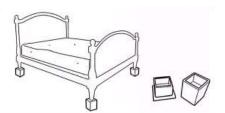
Additional booster cushion/mattress or blocks

Make sure the chairs or recliners you use have armrests. Avoid chairs with casters or unstable chairs, and soft, deep chairs. The seat of the chair should be **2 inches higher than the back of your knees.** Plan to use a good cushion to raise the seat to the height needed for safe positioning. You can use this cushion to raise your car seat.



You can also raise your bed mattress to make it easier to get in and out of bed. Make sure you have a **firm**, **high bed** (extra mattress or raised on blocks). However, this is not always required depending on the height of your chairs, armchairs, bed and your size.





Raised toilet seat

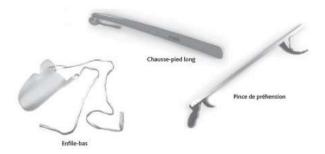
Seat raised 2 inches above the back knee bend (with or without armrests for approximately 6 weeks). Not always required depending on the height of your toilet and your size.



Suggested technical aids for returning home

These technical aids are not mandatory. They are recommended to make you independent and to help you if necessary after the operation.

- Technical aids for dressing (sock threader, long shoehorn, gripper)
- Technical aids for hygiene (bath board, long handle brush, shower phone, bath support bar, shower phone hook)



In some cases, you may be able to **purchase or rent** technical aids from brace dealers, pharmacies, or big-box stores (see the reference sheet included in your packet).

Wait until you have your group education on the equipment and technical aids needed before making your arrangements.

For any questions, contact your CLSC (see page 50).

Preoperative appointments

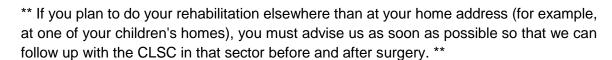
Group teaching (PadOrtho)

You will receive an initial call from the pre-admission clinic for group instruction by the nurses and physiotherapists and an axial knee X-Ray.



The administrative officer will inform you of the **date and time** of your appointment. It is recommended that you **bring a relative** to the appointment.

| Date and time of my group teaching: |
|--|
| Date and time of my axial knee X-Ray: |
| Person who will accompany me: |
| Pre-admission clinic |
| You will receive a second call from the pre-admission clinic to complete your file, meet with the anesthesiologist to validate the types of anesthesia available to you, take blood samples and perform tests if necessary. The nurse will validate with you the medications to be taken before the surgery as well as your preoperative preparation (pages 20 to 23). |
| Date and time of my pre-admission clinic appointment: |
| Person who will accompany me: |
| Admission |
| A third call will be made to tell you the date of your surgery. The time of arrival at the hospital will be given to you by phone 24 to 48 hours before the operation. |
| Date of surgery: |
| Arrival time: |



surgery and on the day of the surgery.



Please note that it is possible that your surgery date will be postponed.

It is recommended to be accompanied at all appointments related to the

Medications to stop or continue

At your appointment with the orthopedist or the nurse at the pre-admission clinic, we will advise you if you need to stop or continue these medications before your surgery.



| 0.0.0 | , ou. ou.go.,. |
|--------|--|
| | Aspirin ^{MD} , Asaphen ^{MD} , Rivasa ^{MD} , Entrophen ^{MD} , Novasen ^{MD} , Persantine ^{MD} , AAS, Aggrenox ^{MD} (dipyridamole/AAS), etc. |
| | ☐ To stop days before surgery |
| | □ Do not stop |
| | Plavix ^{MD} (clopidogrel) |
| | ☐ To stop days before surgery |
| | □ Do not stop |
| | Effient ^{MD} (prasugrel), □Ticlid ^{MD} (ticlopidine), Brilinta ^{MD} (ticagrelor) □ To stop days before surgery □ Do not stop |
| × | Anti-inflammatories (ex. Advil ^{MD} , Ibuprofène ^{MD} , Motrin ^{MD} incluant pour enfant Celebrex ^{MD} , Maxidol ^{MD} , Aleve ^{MD} , Naprosyn ^{MD} , etc.) |
| | Stop 2 days before surgery |
| × | All natural products (glucosamine, omega 3, vitamin E, etc.) |
| | Stop days before surgery |
| | can take medications such as Tylenol®, Tylenol® extra strength, acetaminophen Tempra® until midnight the night before your surgery. |
| If you | u are taking Coumadin ^{MD,} Sintrom ^{MD} , Pradaxa ^{MD} , Xarelto ^{MD} , Eliquis ^{MD} , Lixiana ^{MD} |
| | ospital pharmacist will call you about 1 to 3 weeks before the operation and may you to have a blood test. |
| | e the pharmacy department receives the results, a pharmacist will call you again lyou when to stop taking this medication. |
| IM | It is mandatory to respect this instruction. |



You will not be able to have surgery for **3 to 6 months** if you receive **infiltrations** in your **operated knee**.

Preoperative preparation

One week before surgery

ATTENTION

One week before your surgery, if you have these symptoms:

- Sore throat, cold or flu
- Temperature (fever), over 38°C
- Taking antibiotics
- A contagious disease (example: chicken pox) or have had recent contact with someone with a contagious disease
- A possible or confirmed pregnancy
- Redness, inflammation, discharge, sore or any other problem with the part of the body being operated on.

Call immediately to inform the administrative officer:

Grape juice (1000 mL)

| Orthopedics | 450 | 975 | -548 | 37 |
|-------------|-----|-----|------|----|
|-------------|-----|-----|------|----|

The day before the surgery

You can eat **normally**. Ideally, eat a high-protein meal (see page 11).

The **evening** before, **drink** the listed amount of one of the following beverages:

Apple juice (1000 mL)

Commercial iced tea (1000 mL)

The **evening before**, **do not drink** the above beverages if you are diabetic. However, you can drink water, tea and black coffee as usual.

The day of surgery

For all users:

From **midnight** the day before the operation:



- Do not eat solid food or nutritional supplements.
- Do not eat or drink dairy products.
- Do not drink alcohol or smoke.
- For the consumption of clear liquids, refer to the tables below.

At home

| | On the morning of the surgery, drink the listed amount of one of the following beverages: |
|---|--|
| 6 | Apple juice (500 mL) Commercial iced tea (500 mL) Grape juice (500 mL) |
| | If you are diabetic , do not drink the above beverages on the morning of the surgery. However, you can drink water, tea and black coffee as usual. On the morning of the surgery, take the complex carbohydrate drink. On the morning of the surgery, do not drink . |



Be careful to drink **only** these clear liquids and nothing else.

When to stop drinking clear liquids?

You should stop drinking these liquids on **the morning of the operation**. The exact time to stop depends on when you are scheduled to arrive at the hospital on the morning of the operation. Remember that the time of arrival will be given to you by telephone 24 to 48 hours before the operation.



| I need to stop drinking clear liquids to |
|--|
| 6 h |
| 8 h |
| 11 h |
| |

These instructions will ensure that you have a safe operation and avoid serious complications. If you have not followed these instructions, you must notify the nurse upon arrival at the hospital.

Preoperative hygiene

Disinfectant Soap (Dexidin 4%): On the morning of your surgery, you should shower with antimicrobial soap purchased at the pharmacy or gift store at the main entrance to C Block or D Block. You should soap your body from **chin to toes** and rinse afterwards.



- Put on clean clothes after your shower.
- **Do not wear** makeup, false eyelashes, nail polish (fingers and toes), false nails, cream, deodorant, perfume, jewelry or body piercings.
- **Do not shave** the area to be operated on.





Medications to be taken the morning of the surgery

| Take any these medications | |
|------------------------------------|--|
| Take only these medications | |
| (with a sip of water) | |
| | |
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Failure to do so may result in the cancellation of your operation.

Course of the operating day

Arrival at the hospital

On the morning of the surgery, go to the reception desk in block C, first floor, room RC.5. From there, you will be redirected to a unit to prepare for surgery. There is a waiting period between the time of arrival and the time of surgery. Provide entertainment if needed (reading, music with headphones, etc.).

- When you arrive, the nurse will help you prepare for surgery.
- The nurse will take blood samples or tests if necessary.
- She will validate that you have followed the preparation instructions (beverages, fasting, medication, etc.).
- She will ask you to take out your pack of gum so that she can put it in your file.
- She will give you a hospital gown to change into.



You will have to remove:

- Glasses, contact lenses;
- Underwear, jewelry and body piercings;
- Dental, hearing and hair prostheses.

Only one person can accompany you during your surgery. However, your companion will not be able to follow you to the operating room and the recovery room. He or she will have to wait several hours before being able to visit you in your room.

Operating room

When leaving for the operating room, you must wear **only the hospital gown**. You must also urinate before leaving. You will be directed to the operating room on your feet or on a stretcher.

The anesthesiologist will meet with you once you arrive in the operating room to discuss the anesthesia and pain relief modalities that are best for you. You will also meet with the entire multidisciplinary team that will be caring for you during the surgery.

For more information about anesthesia, please read the "Role of Anesthesia - Teaching Sheet" (blue brochure) that was given to you along with this guide.

Please note that the surgery takes an average of 2 to 3 hours depending on your anatomy and the orthopedist. Before your arrival in the recovery room, we make sure that the movements of your operated limb are adequate and that the prosthesis is stable.

Recovery room

Once the surgery is complete, you will be transferred to the recovery room to recover from your anesthesia. An X-Ray of your knee will be taken to ensure that there are no complications from the surgery.

- The recovery room nurse will take your vital signs, check your dressing and assess your general condition and pain level.
- Once you are stable and your pain is well controlled, you will be transferred to the orthopedic unit.

Orthopedic unit

Once you arrive on the unit, the staff will make you comfortable in your bed.

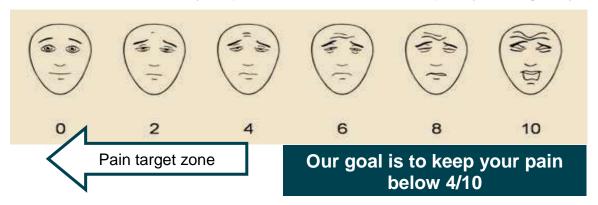
- The nurse will take your vital signs regularly and assess your general condition and pain level. She will also check your dressings.
- Start your exercises (pages 28 to 29) as soon as possible. Remember that the more you mobilize your prosthesis, the faster you will recover.

Visitors (maximum of 2 people) will be allowed on the ward from 8 am to 8:30 pm

Pain control

It is normal to have pain after surgery. The level of pain is different from one person to another. However, with a combination of different pain medications (acetaminophen, anti-inflammatories, narcotics, etc.), mobilization and alternative methods, it can be well controlled. Pain should not prevent you from mobilizing.

You will be asked to rate your pain on a scale of 0 to 10 frequently and regularly.

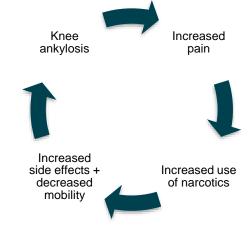


Moreover, when you let the pain intensify too much, it becomes very intense and very difficult to control despite medication. Moreover, when you are in pain, you move less and your knee becomes ankylosed. During the first few days, it is important to evaluate your Moreover, when you let the pain intensify too much, it becomes very intense and very difficult to control despite medication. Moreover, when you are in pain, you move less and

Moreover, when you let the pain intensify too much, it becomes very intense and very difficult to control despite medication. Moreover, when you are in pain, you move less and your knee becomes ankylosed. During the first few days, it is **important to evaluate your pain level regularly and to relieve it quickly.**

Pain relief is important because it will help you:

- · Breathe easier
- Move more easily
- Sleep better
- Eat better
- Healing faster
- Resume your activities quickly



Get involved in the hospital **pain management** process. Ask your questions. That way, when you get home, you'll have a **good understanding of how to manage your pain.**

To help you, write down in a notebook or in your guidebook (page 51):

- Types of analgesia you are allowed.
- How often you are allowed to take pain medication.
- Time you last took each medication.
- Level of pain.
- Whether or not relief is effective.

The data you enter in your notebook helps you to:

- Better monitor your analgesia and assess the degree of relief.
- Plan your next dose so that you don't let your pain levels rise unnecessarily.
- Avoid overuse by knowing how often you receive them.

There are other ways that can be used in conjunction with medication to relieve pain:

- Ice application 20 minutes every 2 hours and after exercises.
- Frequent mobilization and position changes.
- · Analgesic bottle.
- Meditation and relaxation methods.
- Distraction.



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Ice application

Cold is a good way to reduce inflammation and pain in your operated knee in combination with medication. After your surgery, you will be recommended to put ice every 2 hours for 20 minutes on your knee and after the physiotherapy sessions to reduce inflammation (see page 33).

Exercises

After your surgery, you will need to lie down for 3 hours. However, immobility and lying still for a long time can cause complications such as pneumonia, blood clots and weakened muscles. To prevent these complications, you should start doing the following exercises **right after waking up** and continue doing them while in the hospital. **Don't wait** for your nurse or physical therapist to ask you to do them, **take the initiative to do them quickly.**

Spirometry (Respirex)

To be done **as soon as you arrive** on the orthopedic unit. Then, **every hour** (about 10 repetitions) when you are awake.

Spirometry is a simple breathing exercise that helps prevent respiratory complications such as pneumonia. It facilitates the removal of secretions from the lungs to maintain proper lung expansion. It stimulates the breathing reflex slowed down by anesthesia and pain medication. Finally, it promotes well-being and helps you return to your usual activities more quickly.



How to do it?

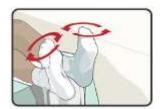
- Remove the device from its packaging. Connect the tube to the spur.
- Make yourself comfortable, ideally in a sitting position.
- Hold the device straight out in front of you (if it is tilted, it is too easy), exhale normally.
- Place your lips around the mouthpiece tightly, then **inhale**, taking in enough air to raise the first ball, then the second.
- Continue breathing in to keep the balls elevated for 3 seconds. This step helps to properly inflate your lungs. Keep your inhale for 3 seconds even if the ball is down.
- Then exhale through your mouth with your lips pursed. Take a break to breathe normally, then repeat.
- Repeat 10 times per hour or as directed by the nurse.
- Leave the device near you to encourage you to do these exercises. Do these exercises for up to 1 week after surgery.

Mobilization of the ankles

These three exercises promote blood circulation in your legs while you are lying down. Do these exercises for 1 to 2 minutes, every hour when you are awake.

- ☐ Ankle bending
- Ankle rotation
- ☐ Ankle extension







Legs

Here are 2 exercises that you should do as soon as you return from the operating room at a rate of 20 repetitions every hour when you are awake.

Bend the knee

- Bend the operated knee as far as you can by sliding your foot under the chair (when you are sitting) or on your bed (when you are lying down).
- Then use your healthy leg by pushing on the front of the operated leg to bend further when you are sitting.
- Hold the position for 5 seconds.
- Keep your buttocks firmly supported on the seat of the chair or on your bed.

Crush the knees

- Lie on your back with your legs extended.
- Try to crush your knees against the bed by contracting your thigh muscles and pulling your feet toward you.



- Hold the position for 5 seconds.
- Release and repeat.



Mobilization

During the first few hours, the nursing staff will help you position yourself in bed if necessary. You will have a cushion or pillow under your knee for the **first 4 hours postoperatively** to prevent swelling and decrease bleeding. After this period, there **should** never be no cushion under your knee.



You must **change position regularly** to avoid ankylosis of the prosthesis and pressure sores. Take advantage of this time to start your knee flexion and extension exercises (page 28).

Verticalization and first postoperative getting up

The verticalization consists of sitting on the edge of the bed with your legs hanging out of the bed and is done **4 hours** after the surgery **with the help of the nursing staff**.

If everything goes well, you will then do your first stand-up. It consists of moving around with a walker and sitting in a chair with **the help of the nursing staff** or **physiotherapy professionals**. You are usually allowed to put **100% of your weight** on the operated leg unless your orthopedist advises otherwise.

Walking

From the first hours after your surgery, your physiotherapist and the nursing team will guide you through your first movements to ensure that you move safely. You will use a walker to get around. As soon as possible, you should use a walker to go to the bathroom. **Avoid using the commode chair, bedpan and urinal.**

Prevention of thrombophlebitis

To prevent the formation of clots associated with surgery and decreased mobility, your orthopedist may prescribe an anticoagulant to be taken as a pill or injection. If the doctor has prescribed an anticoagulant injection, you will need to give it to yourself (1-2 times a day). The nurse will teach you how to self-administer this medication before your discharge.

Goals for the day of surgery

Your nurse will encourage you to achieve a few goals. These are simple tasks that will help you recover more quickly from your surgery.

| These (| goals are as follows: | | |
|--|---|--|--|
| | Sit for a minimum of 15 minutes in a chair. Start eating and drinking protein-enriched nutritional supplements. If you feel nauseous (sick to your stomach), start with clear liquids and gradually increase the amounts and texture as you tolerate. Chew sugarless gum for 30 minutes to stimulate your bowels. Do leg exercises every hour. Do breathing exercises every hour. | | |
| | Goals for the days following surgery | | |
| | Breathing exercises to be done until 1 week after surgery. Ankle and leg mobilization exercises to be done every hour in bed and in the chair when you are awake. Sitting for a minimum of 15 minutes in the chair, at least at every meal. Walk down the hallway several times a day. Stay out of bed most of the time. Do your best during physiotherapy exercises. | | |
| Participate actively and regularly in your exercises so that your prosthesis evolves well. | | | |
| | Assess pain regularly and take pain medication regularly. Maintain an acceptable pain threshold (below 4/10) and notify the nurse when pain increases. Take an active role in pain management by recording information in a notebook or at the end of the guide. Eat normally and drink protein-enriched nutritional supplements. Chew sugarless gum for 30 minutes 3 times a day. Drink 8 to 10 glasses of water a day to avoid constipation (if no restrictions). | | |

Back home

You may leave the hospital when:

- You will have been discharged by all involved.
- You will be relieved with pain medication.
- You will mobilize normally and safely.
- In the nurse will have given you and explained all the discharge papers:
 - Prescription for pain medication to be picked up at the pharmacy.
 - A summary sheet of your episode of care to give to your family doctor.
 - A Hospital Attendance Ticket or Time Off from Work will be given to you
 only if you have requested it. Notify your orthopedist if you need these
 documents.
 - Prescription for an X-Ray.



Insurance forms:

If you have insurance forms to be completed, drop them off at the orthopedists' private office (1555 de l'Avenir Blvd., Laval). The secretary will call you to pick them up.

No forms will be filled out during your hospital stay.

Ask an **adult** to pick you up, as you will **not be able to drive** after the surgery. You should also arrange for this person to have your **walker** to facilitate your transfer to the car.

If you live **alone**, it is a good idea to have an adult stay with you for the **first 24 hours** to ensure safety.

Post-discharge follow-up

A nurse from the CLSC will come and follow up on your health and your wound when you return home. A physiotherapy professional will also come and check on the progress of your exercises the first week after your surgery. Thereafter, you will have to travel to do your physiotherapy sessions on an **outpatient basis**.

You will have to plan your transportation since you will not be able to drive. You will have a follow-up appointment with the **orthopedist 6 weeks** after your surgery. **The week before your appointment**, you will need to have an x-ray of your knee (the request will be given to you at discharge).



Post-operative instructions

Medication for pain relief

Because you were actively involved in managing your pain after surgery, you are able to apply the same principles you learned during your hospital stay at home so that your pain is well relieved.

On the other hand, it is normal to have pain for a few weeks after surgery.

Pain relief should be constant and the pain should not prevent you from doing your daily activities such as dressing, bathing or eating. In fact, your pain should not exceed 4/10 during your activities of daily living.

However, during physiotherapy exercises, you must go beyond 4/10 for the exercise to be effective. It is normal to experience severe pain up to 10/10 during exercise. This pain should, however, decrease to 4/10 or less 15 to 20 minutes after the exercise session.

To relieve pain, follow your doctor's prescription and the pharmacist's advice. Unless otherwise advised, take acetaminophen (Tylenol®) regularly for the first few weeks to keep the pain as low as possible and take narcotics if the pain is worse as prescribed. Continue to use the notebook or guide to record your pain management. For optimal relief, it is not advisable to wait until the physical therapy sessions to take the pain medication. It has been proven that a user who is well and continuously relieved increases his or her ability to perform daily exercises and, as a result, recovers his or her strength and range of motion more quickly.

Withdrawal from medication

Normally, after the first week and depending on your level of pain, you can begin to consider tapering off the medication. Start by reducing the amount of tablets or spacing out your doses of narcotics. Gradually, if you are well relieved, you can do the same with the other categories of medications used for your surgical pain, always starting with the strongest medications. Eventually, you will take only acetaminophen, which you can stop if you are completely relieved.

If you have any questions regarding the withdrawal of medication, you can **contact your pharmacist.**

Cold pack

Here is a homemade recipe for "ice" that allows you to adapt the content to the shape of your knee.

Ingredients

- 1 cup of 70% rubbing alcohol or winter wash
- 4 cups of water
- 2 large freezer bags (Ziploc©)

Instructions for use

- Put the entire mixture in a good quality freezer bag.
- Insert it into a second bag.
- Remove air from both bags and seal tightly.
- Freeze.
- Cover the bag with a pillowcase to avoid direct skin contact.
- Apply the cold pack to your operated knee for 20 minutes every 2 hours.
 After application, return the bag to the freezer for the next use.

Nutrition and hydration

Your bowels will begin to function normally again within a few days after your surgery. To avoid constipation that may be caused by pain medication and decreased physical activity:

- Eat fiber (cereals, whole grain bread, fruits, vegetables, etc.).
- Drink 8 to 10 glasses of water per day (if no medical restrictions).
- Chew gum for 30 minutes 3 times a day.
- Walk. Walking can help with bowel function.
- Take medication prescribed by your orthopedist to soften your stool (if prescribed).
- Ask your pharmacist for advice, as some laxatives are available over the counter.

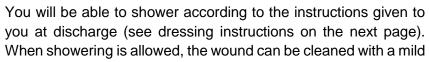
After 3 days, if despite this advice, **you are unable to have a bowel movement**, consult **a health professional** (pharmacist, family doctor, Info-santé).





Hygiene

Plan to wash yourself at the **sink** for **several days** following the surgery, as you will not be able to wet the dressing or the wound for 10 to 14 days.





unscented soap. Then let the water run over the incisions, but do not rub and make sure to pat the skin dry. Use your technical aids as needed.

No bathing is allowed before **3 weeks**. No spa, pool or lake swimming is allowed until **6 weeks** after surgery to ensure that the wound is completely healed.

If you have any signs of infection, stop showering. Do not put disinfectant or cream on the wound. Put on a dressing to protect the wound and collect the discharge. Contact the ERAS® clinical nurse (page 50).

Clothing

When dressing, sit on a chair to avoid slipping and falling. In the early stages, loose, elasticated clothing may be more comfortable and easier to put on.



If necessary, technical aids for dressing can be useful to promote independence during the first few weeks.

Dressings and wound

Some orthopedists surgeons will leave the wound open to the air while others prefer to cover it. Here are the devices used by orthopaedic surgeons. Dressings should not be rubbed or scraped as they may fall off before the wound has finished healing. The nurse in the orthopedic unit will tell you which one is right for you by checking off the device.

| | Dermabond ^{MD} | Staples | Bridging diachylon | Dressing OPOV |
|-----------------|---|---|---|---|
| | A Britanian Control | HATTONIAN. | TO LAND TO | 4 |
| Definition | Transparent film + surgical glue that seals the wound and protects it from infection | | | Blistered dressing that collects drainage as needed. |
| Installation | Operating room | Operating room | Operating room + CLSC (after staple removal). | Operating room + Orthopedic unit. |
| Duration | 3 weeks | 10 to 14 days | 7 to 10 days | 10 to 14 days |
| Removal | CLSC | CLSC | Take off by themselves. | Orthopedic unit + CLSC |
| Hygiene | Shower after 14 days post-op. | Shower 48 hours after removal. | Shower after 10 to 14 days post- op. | Shower after 10 to 14 days post-op and when dressing removed |
| Particularities | + opaque/+ fragile over time. Do not rub the dressing, as this may loosen the adhesive and tape before the skin is fully healed. | Upon removal of the staples, bridging diachylons will be installed. | After 10 days, if they have not fallen out, you can remove them. | Put as needed at the request of some orthopedists or if discharge. |

It is important to keep the wound well protected from any injury for at least 4 weeks to avoid infection.

It is **normal** to have a **swollen** leg (3 to 12 months) and to have **bruises** the first few weeks. Taking anticoagulants may also increase bruising.

Protect your scar from the sun by using a maximum sun protection cream when it is well closed.

Scar massage

- Repetition : 10x
- Frequency: 2x/day

Around the 3rd week, when the devices have been removed **and** the scar is free of "scabs" or discharge, you can begin massaging the tissue around the scar along its entire length.

This massage serves several important functions including shaping the scar (which helps it stay flat), proper collagen production, reducing pain and itching, and ensuring flexibility in the scar.

To perform the massage, you must:

- Place your index fingers on either side of the scar.
- Press firmly, but comfortably on the tissue so that your fingers and skin move together. The fingers should not slide over your skin or the scar. Do not massage in opposite directions to avoid spreading the wound.



- To be achieved:
 - Vertically from top to bottom;
 - Horizontally from right and left;
 - o In small circles in both directions.
- Next, place your index fingers and thumbs on either side of the scar, press firmly but comfortably on the tissue so that your fingers and skin move together.
- Gently pinch the skin to make a bulge. This slightly lifts the skin away from the bone or muscle. Try to roll this bead up and then down and then from one end of the scar to the other.





The first few days, following these massages, it is **normal** for the **scar to react a little** (slight swelling or heat). If this bothers you, you can apply ice for 20 minutes on your scar after the massage sessions.

Stop massaging if pain develops or if your scar is not responding well (redness, increased heat, discharge, thickening, etc.) and contact the ERAS® clinical nurse (page 50).

Adjustment of technical aids

The adjustment of the height of the walker or the simple cane is done in a standing position, with your trunk straight and your feet slightly apart (hip width), wearing flat heeled shoes.

- Stand in the center of the walker or place the foot of the simple cane about 15 cm (6 inches) from your foot on the side opposite the operated leg.
- Drop your arm along the walker or cane.
- The hand rests (handles) of the walker or cane should be at the level of the crease in your wrist.

Approach with technical aids

Walk normally with the walker. Make sure you stay level with the back legs of the walker.

Avoid carrying objects in your hands when you need to move. Use a basket or bag attached to your walker.

When you are able to walk with your full weight on your operated leg (without limping or loss of balance), you can switch from the walker to using a **simple cane**. Your physiotherapy professional will guide you through this transition and make adjustments to your technical aids.



Use the right techniques



Position yourself at the level of the rear legs of the walker



Never lean on the walker to get up or sit down. Use the armrests or the edge of the chair.

To walk with the simple cane, you must put it on the side opposite the operated leg. The order of support is as follows:

- Cane
- Operated leg
- Healthy leg
- Repeat.

Walking without technical aids can be started when there is no more pain and limping.

Activities

You should continue to be active after your surgery, but alternate with periods of rest. It is normal to feel some fatigue. Walking is one of the best forms of exercise (unless otherwise advised).



As soon as your wound is completely healed, most sports are recommended (stationary bike, swimming after 6 weeks, etc.). In fact, the stationary bike can be used as a mobility exercise as recommended by your physiotherapy professional. It is preferable to put the seat higher for the first few weeks to reduce pain and irritation of the knee during flexion and to promote full extension.



After 3 months, activities can be resumed depending on your tolerance and progress (cycling, golf, bowling, etc.). However, sports that subject your prosthesis to repetitive stress should be avoided, as they reduce the life of the prosthesis (jogging, jumping, karate, racket sports, etc.). Activities involving falls or collisions increase the risk of prosthesis breakage and should also be avoided (soccer, volleyball, soccer, field hockey, aggressive skiing, etc.).



Avoid lifting weights over 4.5kg (10 lbs) for 4 to 6 weeks after your surgery.

Driving

You will **not be able to drive for 6 weeks** following your surgery. To be able to drive, here are the criteria you must meet:

- You no longer feel dizzy.
- You no longer have pain.
- You will have been off narcotic medications for at least 24 hours.
- You will have recovered your reflexes (evaluated by your physiotherapist and your orthopedist).
- You will have had your follow-up appointment with your orthopedist (4 to 6 weeks after your surgery).

Travel

It is normal for metal detectors to ring at airports when you go through customs. You do not need medical proof that you have a knee replacement. From a medical point of view, after 6 weeks, if you have not had any complications, the orthopedist authorizes you to travel without any particular precaution. However, before traveling, check with your insurance company to make sure that you are covered in case of problems abroad. Some insurance companies require a period of 3 to



problems abroad. Some insurance companies require a period of 3 to 6 months without traveling.

Alcohol

Alcohol is contraindicated when taking narcotics because it magnifies some of their side effects (drowsiness, decreased alertness, decreased coordination, difficulty breathing). Once you have been off narcotics for 24 hours, you may consume alcohol in moderation.

Recovery

Return to work depends on the type of work you do, but generally allow **12 weeks for recovery**. Don't hesitate to ask for help from friends or family.



Exercises to do after your surgery

In order to recover from your surgery, it is important to **start exercising as soon as possible** to avoid ankylosis and stiffness caused by swelling and adhesion formation. You will be assisted by a physiotherapy professional to ensure a smooth progression from lying to sitting and finally to standing.

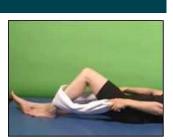
All exercises (except #8) should be performed at a rate of :

- Repetitions: 20
- Frequency: 2-3 times a day

LEVEL 1: LYING DOWN EXERCISES

#1 Bending the knee with assistance

- Lie on your back. Place a strap or towel around your ankle and hold the ends in each hand.
- Bend your knee as far as you can by yourself, without the help of the strap.
- Then pull on the strap to bend your knee further.
- Hold the position for 5 seconds.
- Release by slowly extending your leg, then repeat.





#2 Crush the knee

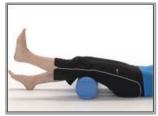
- Lie on your back with the operated leg extended and the ankle resting on a pillow or rolled towel.
- Push the operated knee towards the mattress by contracting your thigh muscles and pulling your toes towards you.
- Hold the contraction for 5 seconds.
- Release, then repeat.



#3 Remove the foot of the bed

- Lie on your back with your knees resting on a cushion or rolled towel. You can also use a tomato juice or coffee can wrapped in a towel to do the exercise.
- With your knee pressed against the cushion, lift your foot as high as you can.
- Hold for 5 seconds.
- Slowly lower your foot back down onto the bed, then repeat.





#4 Back bridge exercise

- Lie on your back with your knees bent at 90 degrees
- While squeezing your buttocks, lift your pelvis off the bed as high as possible or until your trunk is in line with your legs.
- Hold the position for 5 seconds.
- Slowly lower your pelvis back onto the bed, then repeat.





LEVEL 2: SITTING EXERCISES

#5 Bend your knee with assistance from the other leg

- Sit in a chair with your back straight.
- Bend your knee as far as you can by sliding your foot under the chair.
- Then use your other leg by pushing on the front of the leg to bend further.
- Hold for 5 seconds.
- Keep your buttocks firmly planted on the seat of the chair.
- Release, then repeat.





#6 Passive knee extension with hand assistance

- Sitting with your back straight, rest the foot of the operated leg on a small bench or another chair.
- Relax the leg and let the knee go down to the floor.
- Apply pressure with your hands on the top of the knee for 5 seconds to stretch it further.
- Release and repeat.





#7 Extend the knee actively seated

- Sit in a chair with your back straight.
- Extend the knee of the operated leg to the maximum while keeping the thigh in contact with the seat of the chair.
- Hold the position for 5 seconds.
- Slowly lower the foot to the floor, then repeat.





#8 Calf Stretch

This exercise should be done:

- Repetition: 3
- Frequency: 2-3 times a day
- Sit on a chair with your back straight.
- Extend the operated leg by extending the knee as far as possible without your heel leaving the floor.
- Place a towel under the front of the foot of the operated leg, holding the ends with your hands.
- Pull the towel so that the toes come towards you until you feel a stretch in the calf.
- Hold the position for 30 seconds.
- Release the stretching position for 30 seconds, then repeat.



LEVEL 3: STANDING EXERCISES

#9 Weight transfer

- Stand upright near a table or chair to use as a support for your hands.
- Gradually transfer your body weight to the operated leg while maintaining the support of your hands.
- Hold the position for 5 seconds.
- Return to the center, then repeat.



#10 Bending the knee while standing

- Stand up straight near a table or chair to use as a support for your hands.
- Bend the operated knee by moving the foot up towards the buttock without moving the thigh.
- Hold the position for 5 seconds.
- Slowly lower the foot, then repeat.





#11 Mini-squat

- Stand with your hands on a chair or table.
- Bend your knees slightly to about 30-45 degrees (as if you were trying to sit up, but you stop halfway).
- (as

- Hold for 5 seconds.
- Slowly come back up, then repeat.



#12 Riding on tiptoes

- Stand with your hands on a chair or table.
- Stand on your tiptoes on both legs without bending your knees.
- Hold the position for 5 seconds.
- Slowly come back down, then repeat.



For more information, please visit the following sites:

- www.lavalensanté.com
 (in the care and services/surgery/orthopedics/knee section)
- https://www.physiotec.org

Transfer techniques

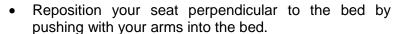
Your operated leg is weaker and does not bend as well the first few days. It will improve with time and practice, but in the meantime, you will have to compensate with your non-operated leg and your arms.

Moving in a dorsal position from one side of the bed to the other

- Keep the head of the bed flat.
- Bend your legs and push with them and your arms to lift your seat and move it to the desired side. Then move your upper body with your arms to realign yourself.
- Do the maneuver for short distances at a time until you have reached the desired side.
- This maneuver is similar to the back bridge exercise (demonstrated on page 41).

Transfer to bed: getting out of bed

- Approach the edge of the bed with the back bridge exercise (page 41).
- Lower your legs off the bed while keeping your thighs supported by the mattress. You can use your healthy leg
 - to move your leg off the bed. Use your arms to sit up in bed.



- Extend your operated leg forward with your knee slightly bent. Push with your arms on the mattress and with your non-operated leg against the floor to lift yourself off the bed.
- You may also use your operated leg as tolerated, unless your surgeon advises otherwise. If you have a restriction, it will be noted at the head of your bed during your hospital stay. Once you have managed to stand upright, you can use your walker to support yourself.









Transfer to bed: lie down again

- Approach the edge of the bed with your walker until the back of your knees touch the edge of the bed. Once both legs touch the bed, move the operated leg forward.
- Place your hands on the edge of the bed. Sit down, controlling the descent with the healthy leg and arms on the bed. Move your buttocks back with the help of your arms.
- As you move back, gradually turn toward the pillows to face the foot of the bed.
- Gradually raise your legs, making sure to maintain proper alignment of the operated leg. Use your hands or make a hook by inserting your non-operated leg under the operated leg at the ankle to help you lift the operated leg into the bed.
- Once the legs are on the bed, pull the healthy leg out from under the operated leg. Reposition yourself in the bed, then lie on your back. You can move around the bed using the back bridge exercise (page 41).







Transfer to the chair

- Approach the chair with your walker until the back of your knees touch the edge of the chair. Move your operated leg forward keeping your knee slightly bent.
- Take the armrests of the chair, one hand at a time. Slowly sit on the front of the chair, controlling the descent with your arms and your healthy leg.
- Then slide down to the bottom. Avoid letting yourself fall.





Standing up

- Do the opposite of the chair transfer. Move the operated leg forward.
- Slide yourself onto the front of the chair.
- Push yourself up on the armrests of the chair and on your healthy leg.
- Once you are standing, take the walker and bring your legs to the same height.

Reaching objects out of range

Do not use a step stool or chair to reach higher objects. A fall could have very serious consequences.

In the first few weeks and until your strength and flexion in the operated leg is fully restored, it is best to use a long-handled pliers to reach an object out of your reach.



You can also pick up an object from the ground by extending your operated leg backwards and



bending your non-operated leg. It is best to use a solid surface for this maneuver to avoid losing your balance.

Walking up the stairs

- Approach the first step. Supporting yourself on the handrail and cane, step up the healthy leg onto the first step.
- Then climb the cane and the operated leg on the same step as the healthy leg.
- Repeat the sequence: healthy leg, cane with the operated leg, healthy leg, etc.
- Climb one step at a time and the cane will always follow the operated leg.

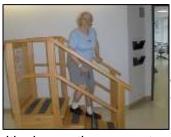


Patient with left knee surgery



Walking down the stairs

- Approach the first step. Supporting yourself with the handrail and cane, lower the cane first onto the step.
- Lower the operated leg.
- Finally lower the healthy leg onto the same step as the operated leg.
- Repeat the sequence: cane, operated leg and healthy leg on the same step, etc.



Patient with left knee surgery

Always use 2 supports:

- 2 handrails
- 1 handrail and a cane

Remember:
"The good (healthy leg) go to heaven and the bad (operated leg) go down to hell".

Transfer to the car (front seat)

 Move the passenger seat back as far as possible and tilt the seat back. You can also cover the seat with a firm cushion and a plastic bag to make the transfer easier.



 Get as close as possible to the right front door (passenger side) with your walker. Stand with your back to the car and the back of your legs touching the car.



 Support yourself on the dashboard (left hand) and on the backrest (right hand). Slowly sit on the edge of the seat with the operated leg extended in front of you (same as sit-to-stand transfer - page 45).



- Cross your head and slide your buttocks as far back as possible, keeping your back slightly tilted.
- Enter one leg at a time to facilitate proper alignment. As your back is tilted backwards, as you rotate your pelvis, bend your knee and lift your thigh with your hands to facilitate the entry of your operated leg into the vehicle.



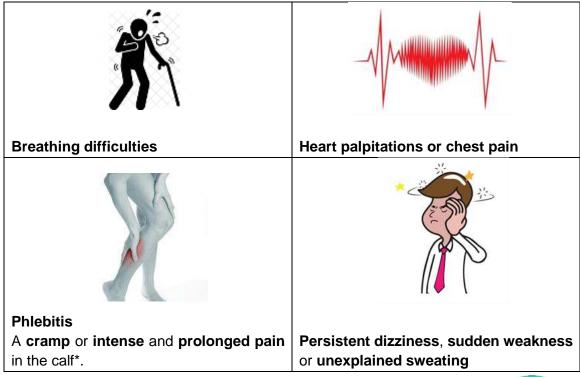
 Once the leg is in, you can readjust the position of the backrest and seat for your comfort.



Proceed in reverse order to get out of the car by first lowering the seat back.

Complications to watch out for

If you have ...



Call immediately Health emergency at 911



*Phlebitis is a blood clot that forms in the legs during prolonged immobility. It can travel to the heart, lungs and brain. Other signs to watch out for are:

- Redness in the leg
- Sensation of heat in the calf
- Edema of the calf
- Severe pain in the calf
- Prolonged cramping in the leg

However, it is **normal** for your knee (or leg) to be **swollen** for 3 to 12 months after your surgery.

If you have one or more of the following signs or symptoms:



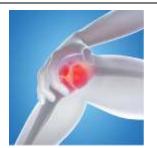
Fever (38.5°C or 101°F and higher) for more than 24 hours



Pain that increases or is not relieved by medication.



You have **nausea** or **vomiting** and cannot tolerate liquids.



Significant bleeding in the operated area.

Signs of infection at the site of the operation

- Redness
- Pain
- Swelling
- Yellowish or greenish discharge
- Warmth
- Splitting of the wound edges
- Stitches begin to emerge from the wound



See the ERAS $^{\rm MD}$ clinical nurse (page 50) between 8 am and 3 pm on weekdays.

Contact Info-Santé at 811 anytime (24/7) for health advice or go to the emergency room

For all other questions, contact one of the resources listed on the following page.

Available resources



For **health advice**, call 811.

24 hours a day, 7 days a week

| Before the surgery | |
|---|--|
| Pre-admission (before surgery only) | 450 975-5566 |
| Après la chirurgie | |
| Care Unit - Orthopedics 5th ouest Sud(Same day as hospital discharge, evenings and weekends) | 450 668-1010, poste 23474 |
| ERAS ^{MD} clinical nurseeras.cissslav@ssss.gouv.qc.ca | 450 668-1010, poste 22681 |
| (Monday to Friday between 8am and 3pm, response time 24- | 48 working hours) |
| Info-Santé | 811 |
| Orthopedic Outpatient Clinic | 450 975-5569 |
| Private Office of Orthopaedic Surgeons | 450 668-3840 |
| | |
| CLSC (after hospital care, evenings and weekends) | |
| Laval aera | |
| | 450 627-2530, poste 64922 |
| Laval aera Accueil première ligne (front line reception) Laurentian aera | |
| Laval aera Accueil première ligne (front line reception) Laurentian aera Thérèse de Blainville | 450 433-2777 |
| Laval aera Accueil première ligne (front line reception) Laurentian aera Thérèse de Blainville Des sommets | 450 433-2777 819 324-4000 |
| Laval aera Accueil première ligne (front line reception). Laurentian aera Thérèse de Blainville. Des sommets. St-Jérôme | 450 433-2777 819 324-4000 450 432-2777 |
| Laval aera Accueil première ligne (front line reception) Laurentian aera Thérèse de Blainville Des sommets St-Jérôme Pays d'en haut | |
| Laval aera Accueil première ligne (front line reception) Laurentian aera Thérèse de Blainville Des sommets St-Jérôme Pays d'en haut Jean-Olivier Chenier | |
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| Laval aera Accueil première ligne (front line reception) Laurentian aera Thérèse de Blainville Des sommets St-Jérôme Pays d'en haut Jean-Olivier Chenier Argenteuil Antoine Labelle | |
| Laval aera Accueil première ligne (front line reception) Laurentian aera Thérèse de Blainville Des sommets St-Jérôme Pays d'en haut Jean-Olivier Chenier Argenteuil Antoine Labelle Lanaudiere aera | |
| Laval aera Accueil première ligne (front line reception) Laurentian aera Thérèse de Blainville Des sommets St-Jérôme Pays d'en haut Jean-Olivier Chenier Argenteuil Antoine Labelle | |

• CISSS de Laval : www.lavalensante.com

• Fondation Canadienne d'Orthopédie : www.canorth.org/fr

• Société de l'Arthrite : www.arthrite.ca

Pain tracking journal

The Pain Tracking Log allows you to **take part** in your episode of care. Using the Pain Intensity Scale, record your pain out of 10, the name of the pain medication taken and the time you received your pain medication. This will allow you to understand and better manage your pain relief in the hospital with guidance and to continue independently at home.

| For exemple : | Days after the surgery | Mornin | g | No | on | Evenin | g |
|--|---------------------------|-------------------------------|---|--------------------|----|---|-----------|
| | 1 | 6 /10 8 h 20 : dílaudíd | | 4 12 h dílai | | 子 /1(16 h 4: dliaud 21 h : dila | 5 : [d |
| Pain intensity scale No pain Intolerable pain 0 1 2 3 4 5 6 7 8 9 10 | | | | | | | |

| Days after the surgery | Morning | Noon | Evening | Night |
|------------------------|---------|------|---------|-------|
| 1 | /10 | /10 | /10 | /10 |
| 2 | /10 | /10 | /10 | /10 |
| 3 | /10 | /10 | /10 | /10 |
| 4 | /10 | /10 | /10 | /10 |
| 5 | /10 | /10 | /10 | /10 |
| 6 | /10 | /10 | /10 | /10 |

Notes and questions

Notes and questions

Bibliography

- Centre intégré de santé et de services sociaux de Laval. (2019). Passeport pour arthroplastie du genou Prothèse totale du genou.
- Centre intégré de santé et de services sociaux de Laval. (2018). Passeport pour ma chirurgie de la prostate.
- Centre universitaire de santé McGill. Office d'éducation du patient. (2015). *Guide pour la chirurgie du genou.*
- Vancouver Coastal Health. OsteoArthritis Service Intergration System. (2019). *Before, During and After Hip and Knee Replacement Surgery: A patient's guide.* http://vch.eduhealth.ca/PDFs/FB/FB.130.B393.pdf

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