Welcome to the UCSF Adult Joint Reconstruction Division of the UCSF Orthopaedic Institute. This pamphlet will guide you through your total knee replacement surgery. The goals of your surgery are to reduce pain and return you to a more active lifestyle. If you have any questions or concerns, please call (415) 353-2808 to contact your surgeon.
Overview

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Pre-op Checklist [Knee]

— 1. PRIMARY CARE PROVIDER (PCP) - please inform them of your surgery.

— 2. DENTAL HEALTH - Complete any dental work ~6 weeks pre-surgery; avoid dental work 12 weeks after surgery.

— 3. QUIT SMOKING/ NICOTINE products - It is mandatory to quit 30 days prior and 2 months after surgery. Nicotine restricts blood flow and ↑ risks for complications.

— 4. EAT HEALTHY AND EXERCISE - Continue exercising as directed by your physician. Eat balanced meals with protein, high-fiber carbohydrates, and low sugar.

— 5. CONFIRM 2 PRE-OP APPOINTMENTS with surgeon’s practice coordinator:

A. PREPARE (anesthesia) appointment - have medication list, medical history, and advanced directive available. This appointment may be done over the phone. Covid-19 testing, which is required 1-4 days pre-op, will be discussed during this appointment.

   Parnassus Campus: UCSF Moffitt-Long Hospital, 505 Parnassus Ave., 1st floor, Room L-171, San Francisco, CA 94143 (415) 353-1099

   Mission Bay Campus: UCSF Medical Center at Mission Bay, 1825 4th St., 3rd floor, Registration desk 3B, San Francisco, CA 94158 (415) 885-7241

   *MarinHealth Medical Center: Pre-Admission Center: 250 Bon Air Rd., Greenbrae, CA 94904 (Old Emergency Room) (415) 925-7935

B. JOINT REPLACEMENT CLASS AT UCSF

Please review class flyers for UCSF or MarinHealth

— 6. Sign up for COMMUNICATION TOOLS to keep in touch with your team:
   ● UCSF MyChart Portal - call (415) 514-6000 to set up
   ● GetWell Loop - automatic registration 1 month prior to surgery; you will be sent an email activation link.

— 7. CONFIRM SURGERY DATE / LOCATION

   UCSF: Mount Zion Campus 1600 Divisadero St., San Francisco

   *MarinHealth: 250 Bon Air Road, Greenbrae

— 8. Plan your ride home from hospital—have your ride available to pick you up before noon day of discharge. Plan for a caregiver/support individual who will care for you during your recovery.

— 9. SUPPLIES for recovery post-surgery: large ice packs, walker/crutches (provided by hospital), raised toilet seat, reacher-grabber, cane, pre-packed meals.

— 10. Establish an outpatient PHYSICAL THERAPY facility that is convenient for you to start 2-3 weeks after surgery.

* ONLY if your surgery is scheduled at MarinHealth
Anatomy of the Knee

The knee is made up of the lower end of the thighbone (femur), the upper end of the shinbone (tibia), and the kneecap (patella). Where the ends of these three bones touch are covered with articular cartilage, a smooth substance that protects the bones and enables them to move easily.

The bony surfaces of the ball and socket are covered with articular cartilage, a smooth, slippery substance that protects and cushions the bones and enables them to move easily.

Osteoarthritis (OA), sometimes called "wear-and-tear" arthritis (loss of cartilage) - is the most common cause of joint destruction, therefore leading to a knee replacement. OA affects more than 28 million people in the United States. Other causes of OA include avascular necrosis (AVN), rheumatoid arthritis, and post-traumatic arthritis.

Diagnosis: Your surgeon will determine how much the osteoarthritis has progressed with X-ray images, physical examination and your clinical history to help determine your treatment plan.

Non-Surgical Treatment: If you have early stages of osteoarthritis of the knee, the first treatments may include: activity modification, medications, physical therapy, steroid injections, regular low-impact conditioning, such as swimming, water aerobics, cycling, and elliptical machine and walking aids. For later stages of osteoarthritis/joint destruction, knee replacement surgery may be warranted.

Knee Replacement

What is Total Knee Arthroplasty?

In a total knee replacement (also called “total knee arthroplasty”) procedure, the surgeon creates a new knee removing the damaged cartilage and bone and resurfacing the ends of the bones with implants. There are four basic steps to a knee replacement procedure.

1. Prepare the bone. The damaged cartilage surfaces at the ends of the femur and tibia are removed along with a small amount of underlying bone.

2. Position the metal implants. The removed cartilage and bone are replaced with metal components that recreate the surface of the joint. These metal parts are cemented into the bone with bone cement.

3. Resurface the patella. The undersurface of the patella (kneecap) is cut and resurfaced with a plastic button.

4. Insert a spacer. A medical-grade plastic spacer is inserted between the metal components to create a smooth gliding surface.

Implants:

Your surgeon will discuss if a partial or a total knee replacement is appropriate. In general the total knee replacement is comprised of 4 components:

- The femoral component is made of cobalt chromium.
- The tibia component is usually made of cobalt, chromium, and titanium.
- The patella and the liner are made of highly cross-linked polyethylene plastic.

The majority of knee replacements are projected to last several decades.
Preparing for Surgery

Medical Preparations - In addition to the Pre-Op Checklist [page 2]

Weigh-in on Weight: If you are overweight, work on weight loss with your PCP to help improve your long-term outcomes of your new knee and your short-term recovery.

Diabetes: If you are diabetic, work with your PCP or Diabetes specialist to make sure to have your sugars under control and to watch your diet.

Infections: If you develop any kind of infection prior to surgery, such as skin or dental infection or a flu, notify your surgeon immediately.

Heart Healthy: If you have a history of cardiac issues, make an appointment with your cardiologist as soon as you can to rule out any medical or cardiac problems that may interfere with your surgery. Your cardiologist may order additional tests before surgery, so do check in with them ASAP to prevent delays to your surgery.

Keep a list of all medications and supplements you take: prescriptions medications, over the counter, and any herbs and vitamins.

Temporary Disability Parking Permit: Our office can provide this DMV form so you can get a temporary disabled parking permit while you recover from surgery. Please call or send us a MyChart message about this form.

Home Preparations

Most patients are discharged directly home after their hospital stay. When planning for your transportation back home, try to arrange for a car that will be easy to get in and out of.

Assess the number of stairs at home (going in or going to the bedroom) and other impediments to get in and out of your home. Your hospital therapist will train you on handling stairs.

If you live in a multi-level home, plan on creating a sleeping place on the ground level for 1-4 weeks.

Make sure you have enough space to maneuver through doorways and hallways. You should have at least 30 inches of clearance to maneuver your walker.

Pre and Post Surgery Appointments

Pre-Op Appointment with PREPARE

Your PREPARE (anesthesia) appointment: In order for the UCSF team to ensure that you are in optimal health prior to your procedure, you will be assessed 1-4 weeks prior to your surgery by a nurse practitioner. The assessment will be held at one of the two UCSF PREPARE clinics OR over the phone:

- **Parnassus Campus**: UCSF Moffitt-Long Hospital, 505 Parnassus Ave. 1st floor, Room L-171, San Francisco, CA (415) 353-1099
- **Mission Bay Campus**: UCSF Medical Center at Mission Bay 1825 4th St., 3rd floor, Registration 3B, San Francisco, CA (415) 885-7241

*Marin surgeries ONLY: Pre-Admission Center (PAC) appointment:

- **MarinHealth Medical Center**: Pre-Admission Center 250 Bon Air Rd., Greenbrae, CA 94904 (Old Emergency Room) Greenbrae, CA (415) 925-7935

Please have ready the following for this appointment: exact medications and supplements you take, past medical and surgical history, contact information of your medical providers (i.e. Primary Care Provider and any specialists).

During your PREPARE/PAC appointment, your provider will review all of your current medication and develop a plan for you to stop certain medications such as NSAIDs.

**IMPORTANT: NSAIDs**—Non-Steroidal Anti-Inflammatory Drugs include Aleve (Naproxen), Motrin or Advil (Ibuprofen), and MUST BE STOPPED SEVEN (7) DAYS PRIOR TO SURGERY.

Note: You may continue Tylenol, Celebrex, or other narcotics for pain management until the morning of surgery. If you take any of the following blood thinner medications such as Plavix, Coumadin, Xarelto, Pradaxa, Eliquis, or Aspirin, you will be given specific instructions on when and if you should stop prior to surgery. You should also check in with your provider who prescribes these medications.

Post-Op Appointment

Your first post-operative appointment will be scheduled 4-6 weeks after surgery, or 2 weeks after surgery IF you have nylon sutures that require removal.

- **Mission Bay Campus**: Orthopaedic Institute 1500 Owens St. 4th FL, San Francisco, CA 94158 (415) 353-2808

**MarinHealth Orthopedic Surgery | A UCSF Health clinic** 4000 Civic Center, San Rafael, CA 94903 (415) 353-2808 or (415) 925-8963
Week of Surgery

Packing for your Hospital Stay

- Do not bring your own medications as the hospital will provide you with your usual medications
- Important medical devices (i.e. hearing aids, glasses, CPAP machine with settings)
- Comfortable and loose clothing; and personal hygiene items
- Slip-on shoes, closed toe please (No flip flops or open-toed slippers)
- Two forms of identification to check in for surgery: one ID must have your picture and the second ID can be any other card that has your name on it
- You may bring your cell phone, if you wish. Please label your charger and phone with your name.
- Leave all of your valuables, including jewelry, wallet and watches, at home.
- IF you use a walker or assisted device—leave it in the car you arrive in. Please have your support person bring them back when you are ready for discharge. If you don’t have a walker (or crutches), one will be provided for you to take home.

Two Days Before Surgery

To assist in the prevention of a surgical site infection, Chlorhexidine (Hibiclens) soap will be provided at your doctor’s visit and/or at the PREPARE visit. Please wash with the soap daily 2 nights before—in addition to the morning of your surgery—for a total of THREE (3) washes. Avoid using this soap on your face and private genital area. You may also use over-the-counter anti-bacterial soap, if you do not have the Chlorhexidine soap. Do not shave near or at your operative area.

The Day Before Surgery

The hospital will call you the business day before surgery to confirm arrival time. Eat a light meal for dinner with no alcohol. Try to rest and go to bed early.

DO NOT EAT ANYTHING AFTER MIDNIGHT

Please do not have anything to eat or drink except clear liquids after midnight the evening before your surgery (including gum, candy or mints). If having surgery at UCSF: you may have clear liquids on the day of surgery up to 2 hours prior to arrival:

- Non-pulp, clear apple juice, Gatorade, Water
- Tea with sugar or sweetener (NO milk, cream, or milk substitute)

Patients scheduled for surgery at MarinHealth:

Please follow instructions provided by MarinHealth PAC

Morning of Surgery

Take your routine medication, as instructed by PREPARE, with a small sip of water.

Your Hospital Stay

Anesthesia Evaluation: After admission, you will move into the pre-operative area where you anesthesiologist will evaluate you. The most commonly used anesthesia is spinal anesthesia, which is administered to block sensation below the waist during surgery. Nearly all of UCSF and Marin patients receive intravenous (IV) sedation along with spinal anesthesia. General anesthesia is the second most common type of anesthesia. You will discuss these options with your anesthesiologist before your surgery.

Advances in anesthetic techniques (nerve blocks and regional anesthesia, less emphasis on narcotics) and rehabilitation make it possible to perform joint replacement procedures with less pain and physiological stress. The operating room time on average takes two hours depending on the severity of the arthritis in your knee. In many cases, a urinary catheter will be inserted while you are in the operating room and usually removed after about 1 day.

After Surgery: You will be moved into the recovery area, where you will stay for approximately 2-4 hours. During this time, you will be monitored until you recover from the affects of anesthesia, after which time you will be taken to your hospital room.

Your Room: Room assignment is based on your medical condition and bed availability on the day of your admission. Your team will try to honor your preference whenever possible. A staff member will show you how to operate your hospital bed and the nurse call system (call button located at your bedside and on the wall in every bathroom).

For your safety, always use your call button to request assistance getting out of bed, as unfamiliar surroundings and sleeping medications may contribute to confusion or a possible fall.

Leaving the nursing floor: For your safety and protection, patients are not allowed to leave the hospital floor unless accompanied by a staff member.
Pain Management

Many patients are concerned about the pain that they will have after joint replacement surgery. Please be reassured that UCSF your orthopaedic team is committed to helping you manage your pain.

***Keep in mind, the pain after surgery is SHORT TERM and the majority of oral pain medication will be utilized in the first 2 weeks after surgery.

MULTIMODAL PAIN MANAGEMENT

Your team will use an approach that combines 2 or more pain agents or techniques to optimize your pain control; and therefore uses less opioids (narcotics), which allows for better pain relief and faster recovery. While you should expect to feel some discomfort, advancements in pain control now make it easier for your orthopaedic team to manage and relieve pain.

PAIN SCALE AT THE HOSPITAL

The UCSF team will ask you to rate your pain using a 0 to 10 scale:

0 = no pain
1-4 = uncomfortable pain
5-7 = significant amount of pain
8-9 = severe pain
10 = worst pain you can imagine

A hospital pharmacist will work with the orthopaedic team to develop your medication plan before being discharged. It is important to take the medications as prescribed - especially in the first 1-2 weeks; this is so you have less pain and can therefore be more active, regain strength quicker and recover faster overall.

Post-Op Medications

<table>
<thead>
<tr>
<th>Prescription (Rx)</th>
<th>Over The Counter (OTC)</th>
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<tbody>
<tr>
<td>1. Oxycodone (or similar narcotic)</td>
<td>4. Tylenol (acetaminophen) pain and fever relief</td>
</tr>
<tr>
<td>2. Celebrex (Celecoxib) or Mobic (Meloxicam) - NSAID</td>
<td>5. Aspirin 81mg [alternatively Lovenox may be prescribed]</td>
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Important Information Regarding Your Narcotic Pain Medicine:

The hospital will provide you with a prescription for your pain pills upon discharge.

If you have a pain management specialist, please see them for refills. Otherwise, your surgeon will provide you with refills up to 2-3 months after your surgery.

Provide at least 3 day’s notice for refills on your pain medications; most pharmacies now accept our electronic prescription, but please give us advance notice so there is no delay.

Narcotics are highly controlled substances. Do not lose your prescription or the pills. Early refills will not be provided. NO EXCEPTIONS WILL BE MADE.

Oral Opioids/Narcotics – Do not stop taking the narcotic pain pills abruptly to avoid experiencing withdrawal symptoms. You can wean off the narcotics by slowly increasing the time between each dose. Do not take pain pills with alcohol. Most patients are able to decrease the daytime amount after 2-3 weeks and then primarily take them at night.

NSAIDs – you can only take certain anti-inflammatory pills after surgery because you will be taking a blood thinner medication to prevent blood clots for approximately one month such as Lovenox (enoxaparin) injections or Aspirin. Avoid Advil (ibuprofen) or Aleve (Naproxen) until you are off the blood thinner.
Pain Management

Non-Pharmaceutical Interventions

Ice/Gel Packs applied to the knee and other areas of swelling can significantly help decrease the pain and inflammation that occurs as a result of surgery. The team recommends that you continue icing at a minimum of 4-5 times a day for 20 minutes each. Be sure to place a barrier, such as a towel, between your skin and cold pack to prevent freezer burns. You may use ice in a bag or gel packs.

Elevate your surgical leg above the level of the heart several times a day, best to combine when icing and doing your ankle pumps.

Be Active: Get out of bed/off couch or chair several times a day for meals, restroom trips and just to stretch to get some circulation going in the body to promote blood flow and healing.

Don’t Over Do It. Especially in first two weeks – allow soft tissues/wound to heal (decrease swelling so that new nutrient-rich blood can reach the tissues to promote healing). Swelling is a result of the surgery and part of healing process, however, the sooner the swelling subsides, the quicker the recovery.

Discharge Planning

Most total joint replacement patients go home after leaving the hospital. Insurance very rarely, if ever, will cover help at home for bathing, dressing, cooking, or cleaning. It is important for you to consider the kind of help you will need and mobilize your friends and family to assist you (with shopping, cleaning, errands, transportation, etc.). Decide ahead of time who will care for you after surgery.

The most HELP is needed in the first 2 weeks:

- Arranging meals that can be stored and frozen, and stocking up on prepared foods will eliminate extra work for your caregiver.
- Plan ahead and arrange for family or friends to drive you home from the hospital. You will be most comfortable in a sedan-type car. Establish someone to stay overnight and be close during the day for the first few days. In addition, you will not be allowed to drive for 2-6 weeks or longer, so you may want to plan transportation to and from your post-surgery appointments.

On average most of UCSF our patients stay one night in the hospital.

The hospital discharges most patients before noon. Patients are required to have their ride home available morning of discharge BEFORE noon.

The staff can help you pack up your belongings. Please send your ride to bring the car to the horseshoe driveway in front of the main hospital entrance 10 minutes before you are ready to leave the hospital. Our Hospitality Service will assist you downstairs in a wheelchair along with your belongings.

If you have any questions regarding discharge planning, please contact your RN Patient Navigator:

UCSF:
Rachael Wynne (415) 514-8421
Erica Suk (415) 514-6148

MarinHealth:
Amy Blevins (415) 925-7907
Physical Therapy & Occupational Therapy

The Physical and Occupational Therapists (also known as PT & OT) will evaluate you post-surgery while you are in the hospital and help the providers to determine what level of therapy, if any, you will need after you leave the hospital. The hospital PT and OT will work with you to achieve the goals necessary in order to discharge you to home safely. **In general, for the first 2 weeks, you want to rest and allow the wound and soft tissues to heal and avoid any falls.**

There are three options for physical therapy after you leave the hospital:

- **Home Physical Therapy:** If needed, after you return home, a nurse case manager in the hospital will arrange for a PT to see you at home 2 to 3 times a week for 2-3 weeks. Your first visit will be within a couple of days after you return home. The home PT will see you until you are no longer home bound and potentially help you wean off the walker to a cane.

- **Outpatient Physical Therapy:** Some patients start outpatient physical therapy at 2-3 weeks after they return home from the hospital. Others have in home PT then transition to outpatient PT if needed. Contact your surgeon’s office with the fax number to the PT clinic you have chosen. The UCSF team will fax your prescription to the clinic, and you can call to schedule your first post-operative visit. You will see an outpatient PT for 2 times per week for approximately 6 weeks. They can help you wean off your walker to a cane if you have not already done so.

- **No Physical Therapy:** Many patients after surgery are able to progress on their own - walking and working on Range of Motion exercises is the best therapy after knee surgery. Gradually returning to activities of daily living will help to regain your strength and function.

An Occupational Therapist (OT) will address activities of daily living during your hospital stay. To be independent in performing activities of lower body self-care skills, you may need to use adaptive equipment (long handled sponge, long handled shoe horn, sock aid, reacher-grabber, elastic shoe laces); and the OT can help determine what you need. You may or may not have an OT come to your home after discharge.

Walking aid (walker or crutches will be provided), cane, raised toilet seat, shower chair, reacher-grabber, dressing stick, sock aid, long handled shoe horn, long handled sponge. It may be wise to purchase these items prior to your hospital stay – most insurance companies do not pay for these (AMAZON.COM or RETAIL PHARMACY).

Recovery and Milestones

**Knee Surgery Rehabilitation**

During your surgery, the surrounding muscles were stretched to insert the prosthesis. It will take approximately 6-12 weeks for these muscles and surrounding soft tissues to significantly improve. The hospital PT will give an instructional sheet. In general, it is best to be cautious and avoid any falls.

Best practice involves getting you up out of bed on the same or next day of your surgery. The UCSF staff will assist you with being active. It is beneficial for you to get out of bed and walk several times a day to help decrease the risk of blood clots and increase your quality of life.

**Milestones for Discharge Home**

Together, we UCSF and you will create a plan to meet your goals for a safe discharge home. This plan will include assisting you in obtaining any equipment or other support you may need.

The majority of patients return home on the first or second day after surgery – this is based on UCSF’s many years of experience working with patients who have had this type of surgery. Below are some goals to consider when preparing for your discharge:

- I understand any surgical precautions I may have after my surgery
- I know how to manage my post-operative symptoms (e.g. pain, nausea, dizziness)
- I can get into and out of bed with minimal assistance
- I am walking the minimum distance for my home setting (with walker/crutches if needed)
- I can manage stairs with assistance
- I understand the use of blood thinner medication prescribed to me
- I have arranged for support upon arrival home
- I know how to manage many of my regular daily activities such as bathing, grooming, and dressing
Early Postoperative Exercises

Walking is the best exercise following surgery; make sure to get up 3-4 times a day to go for a short walk around the house. Goal is to walk 1 minute longer than you did the previous day.

Ankle Pumps
Slowly push your foot up and down. Do this exercise several times as often as every 30 minutes. This exercise can begin immediately after surgery and continue until you are fully recovered.

Bed-Supported Knee Bends/Heel Slides
Slide your heel toward your buttocks, bending your knee and keeping your heel on the bed. Do not let your knee roll inward. Repeat 10 times, 3 or 4 times a day.

Buttock Contractions
Tighten buttock muscles and hold to a count of 5. Repeat 10 times 3 or 4 times a day.

Quadriceps Set
Tighten your thigh muscle. Try to straighten your knee. Hold for 5 to 10 seconds. Repeat this exercise 10 times during a 10-minute period. Continue until your thigh feels fatigued.

Possible Complications of Surgery

The complication rate following knee replacement is low. Serious complications such as knee infection occur in less than 1-2% of patients. Major medical complications such as heart attack, stroke and death occur even less frequently. Although uncommon, when these complications occur, they can prolong or limit full recovery. Contact your team if you suspect any of the following:

**Infection** – may occur superficially in the wound or deep around the implant. It may happen while in the hospital or after you go home—and can even occur years later. Minor infection in the wound is generally treated with antibiotics; for deep infections, removal of the implant may be necessary. Any infection in your body can spread to your knee replacement.

- New fluid draining from the wound
- Opening of the wound
- Flu-like symptoms, including chills & fever greater than 101.3F

**DVT (deep vein thrombosis)** – blood clots in the leg veins or pelvis can occur after surgery.

- New swelling of the operative leg, that does not resolve by the morning or after 1 hour of true elevation
- Unexplained pain of the operative leg and medication is not as effective as before
- Unexplained shortness of breath
- You are suddenly very sweaty
- Your heart rate is increased
- Chest pain

**Preventing Blood Clots:**

Be Active! Walking promotes blood circulation, which helps to decrease your risk for getting a blood clot. During the daytime, be sure to get up every 2 to 3 hours and walk across the room; do ankle pumps; wear compression stockings (no longer used in hospital, but okay to use at home); avoid flying 6 weeks if possible; and take your prescribed blood thinner.

Other complications include:

Loosening and implant wear over years. If this occurs, implants may need to be replaced.

Nerve and blood vessel injury, bleeding, fracture (broken bone), skin numbness near incision site and stiffness. In a small number of patients, some pain can continue or new pain can occur after surgery.
Wound Care

- It is normal to see some (slight) drainage at the top of the dressing.
- If the dressing appears completely saturated from drainage or if there is an increasing amount of drainage from the wound over time, contact your surgeon’s office.
- Do not remove hospital discharge dressing (Tegaderm) for 5 days
- Dressing is sealed (Tegaderm dressing) and you can shower as tolerated (no soaking or bath for several weeks)

After 5 days, you may remove your dressing (Tegaderm), then:
1. If you have Steri-Strips ONLY (absorbable sutures under skin) or light purple skin glue: ok to shower without dressing if wound is dry
2. If you have Steri-Strips over nylon stitches (on top of skin) OR nylon stitches ONLY: replace Tegaderm dressing, before showering

* DO NOT apply any Bacitracin or antibiotic ointment of any kind to the wound; this will disrupt the Steri-Strips adhesive. If you do change the dressing:
   1. Wash your hands with soap and water before touching the dressing.
   2. Remove the dressing carefully. If you need to, soak the dressing with sterile water or saline to help loosen it. Then dry the incision with clean dry gauze. Wipe or pat dry.
   3. Apply a new dressing the way your hospital provider showed you.

- After wound has healed (around 4 weeks post surgery): You may apply creams or ointments on the knee once the stitches are removed and there are no openings of your wound. The following tips can help decrease scar formation:
  * Manually massage the scar tissue – your physical therapist can show you how
  * Apply Vitamin E (or other OTC scar treatments)
  * Avoid sun exposure for 1 year

PETS: Do not allow pets to sleep with you until your wound is completely healed and the sutures/staples are removed. Do not allow pets to lick you or your wounds.

Normal Expectations After Surgery

- Recovering from a total knee replacement varies from person to person.
- You will see the most rapid improvements within the first 3 months after surgery.
- However, improvements can still be seen up to 1-2 years after surgery.

Swelling: Blood circulation in the operated leg is sluggish after surgery, gravity will pool swelling down into the thigh, calf and ankle. As you walk more and elevate this will improve. (Swelling on average lasts 6-8 weeks.)

However, any swelling that comes with significant changes in your level of pain should be reported to your surgeon’s office as you could be experiencing a blood clot.

The following are some suggestions on how you can minimize the swelling of your operated leg:

- Walk frequently to promote blood circulation.
- You may wear thigh-high compression stockings or TED hoses. They are not routinely used but are permitted. They can be purchased at a medical store or retail pharmacy. (Start with the lowest compression level 8-15 mmHg, increase to 15-20, then 20-30 if tolerated.)
- Keep your operated leg above your heart frequently when you are sitting or lying in bed.
- Apply a cold pack minimum 4-5 times a day for 15-20 minutes. Be sure to place a thin barrier, such as a towel or T-shirt, between your skin and the cold pack to prevent freezer burns. You may use ice in a bag (be sure to double bag to avoid leakage) or gel ice packs.

Limping: It is normal to have a limp while in the recovery phase. Strengthening the abduction muscles is important to correct your limp. Walking is the best therapy.

Sleeping: It is common to have difficulty sleeping for the first few months after surgery. You may find it difficult to sleep in your usual favorite sleeping position or that you wake up frequently during the night due to the pain or to take pain medicine. You will return to your normal sleeping patterns as the pain improves. The team does not recommend sleeping pills once you are home as they can cause dependency.

Please speak to your primary care provider if you feel you need a sleeping pill. For better sleep:

- Avoid daytime naps. Establish routine hours for bedtime at night and waking up in the morning.
- Avoid caffeine and drinking fluids at least 3 hours before bedtime. Avoid alcohol.
- Ask your pharmacist if OTC Benadryl or melatonin/sleepy time tea may help.
Parking / Transportation

MarinHealth Medical Center - 250 Bon Air Road, Greenbrae

Parking: Use lots A3, A5, and A6

Mt. Zion Campus – 1600 Divisadero St.

Street parking at Mz. Zion is very limited. Public parking is available in two parking garages near our Mount Zion campus:

- 2420 Sutter St.—between Divisadero and Broderick streets (415) 514-8935
- 1635 Divisadero St. Entrance to both garages are on Sutter Street, between Divisadero and Broderick streets (415) 441-5408

Parking fees vary at each facility. For further information, call the Parking Office. UCSF parking vouchers are not valid at the 1635 Divisadero St. garage.

Public Transportation - The Mt. Zion is accessible via Muni lines:

- 1 California, 2 Sutter/ Clement, 38 Geary, 24 Divisadero

Mission Bay Campus - 1500 Owens St.
(Orthopaedic Institute)

Street Parking is limited. Public parking is available at the rear of the building - Pay in advance at pay station.

Public Transportation - The Orthopaedic Institute is directly accessible via Muni lines:

- T-line, 2 Fillmore, 48 Quintara

UCSF shuttles stops at 3rd St. & Gene Friend Lane and Mission Bay Community Circle. For further information regarding the shuttles, call the Parking Office at (415) 476-2566.

For patients requiring mobility assistance who utilize public transportation or the UCSF shuttle system, you may call (415) 514-6368 five minutes before arriving for a cart ride to the Orthopaedic Institute. The shuttle can pick you up at the following locations:

- Hearst Tower across from the T-line
- 4th St. UCSF shuttle stop
- Mission Bay Community Center

FAQs

Pre-Surgery

1. Can my family visit me in the hospital? Stay overnight? Yes, the team encourages family to participate. However, visiting policies will be in constant flux due to COVID 19 pandemic and precautions.

2. Do I need to donate blood before surgery? The Adult Reconstruction Division no longer recommends donating your blood prior to surgery. Recent research shows that shorter surgical times, improved anesthesia techniques, and new medications to prevent bleeding have made needing a transfusion very rare. Further, blood donations before surgery have been shown to increase the risk of needing a blood transfusion.

3. Will my insurance cover the surgery? Once your surgery has been scheduled, your surgeon’s office will obtain insurance authorization for the surgery. Contact your insurance company for specific insurance coverage information, including copay and deductible costs, or access the following UCSF web link: http://www.ucsfhealth.org/adult/patient_guide/health_insurance.html. If you have any questions about your ability to pay or other financial concerns, call UCSF Financial Counseling at (415) 353-1966, Monday through Friday between 8am and 6pm.

4. Should I get a flu shot before the surgery? The team recommends at least 2 weeks before surgery, as some patients feel under the weather after the shot (but it is up to you).

5. What kind of assistance will be needed? Initially, you may need help with cooking, housework, shopping, laundry, bathing, and transportation (especially first 1-2 weeks). Start recruiting family members, friends or neighbors to stock fridge with microwavable meals and to help with chores, and help with medication management.

6. How do I file my disability paperwork? First, decide if your employer has forms or if you plan on filing for state disability. Then, provide the clinic with the paperwork to file.

7. What do I do with my advance directive paperwork? To request an advance directive form, contact the UCSF Social Work Department at (415) 353-1504.

Surgery

8. How long is the surgery? The average surgery time is 1-2 hours. The time you will be in the operating room is longer due to anesthesia and prep time.

9. How long will I be in the hospital? Most patients stay only 1 night in the hospital and then go home with family or friends; however, the stay could be longer depending on surgery and recovery. It is rare to be discharged to a skilled nursing facility (SNF). The hospital nurse case manager will work with you to determine safest course for discharge.
FAQs

Post-Surgery

10. Will I set off the metal detectors at the airport? Yes, you will probably set off the security monitors; however, most airports have scanners that can visualize the implant and further inspection is not needed. Be proactive and let them know you have a knee replacement. No letters or documents are accepted or needed.

11. I have trouble sleeping; is this normal? This is a common complaint following surgery but tends to resolve quickly. Non-prescription remedies include Tylenol PM, Benadryl, or supplement such as melatonin – please consult your pharmacist or primary care provider.

12. I feel depressed; is this normal? It is not uncommon to have feelings of depression after surgery; this may be due to multiple factors such as limited mobility, discomfort, increased dependency on others, or medication side effects. These feelings tend to resolve as you begin to return to your normal routine. If these feelings persist, contact your primary care provider.

13. I feel constipated, what should I do? This is a common problem following surgery, usually due to limited activity and side effects of narcotics. The team recommends taking stool softeners/laxatives such as Senna, Colace and MiraLax; decrease narcotic use; increase fluids; have prunes or prune juice; walk regularly; increase fiber in diet; and avoid straining on the toilet as this can cause you to faint. Your bowel movements may be irregular at first, but they will gradually return to normal. You should have a bowel movement at least once every 3 days. If you go more than 3 days without having a bowel movement after trying laxatives. Call your primary care provider if you are still unable to have a bowel movement after trying laxatives.

14. Do I need Physical Therapy? The team does not require physical therapy (PT), but most of our patients find it helpful. PT can help transition you to a home exercise program and help with gait training – the most important therapy after knee replacement surgery is walking and motion exercises. If you want therapy, it is okay to start outpatient PT 2-3 weeks after surgery if the wound is healed. For OUTPATIENT PT, it is your responsibility to ensure the facility you choose accepts your insurance. The UCSF team suggests picking a location close to work or home.

15. How long will it take to regain my leg strength? Most patients will notice improvements throughout the rehabilitation process. However, if your arthritis was longstanding and your function was severely limited prior to surgery, it may take up to 1 year before you regain your full leg strength.

16. Should I use ice or heat after surgery? Ice is very helpful during recovery when there is swelling and warmth around the knee. Use the ice pack 15-20 minutes 4-5 times a day; it is best to combine with elevation (prop pillow(s) under ankle while reclining to decrease swelling and therefore pain in the leg).

FAQs

17. What do I do if I live far away from UCSF? For lodging information, contact 1 (888) 689-8273 or (415) 476-1765. The listing can also be accessed online at: http://campuslifeservices.ucsf.edu/housing/off_campus/lodging/pdfs/STLG.pdf

18. When can I drive? On average, it is 2-4 weeks. Once you are off narcotics, ask the surgeon’s permission if you have knee precautions, and you feel safe to react to the breaks to avoid an accident.

19. How soon may I travel by airplane? You should avoid travel on airplane for 6 weeks after surgery. If you cannot avoid airline travel, discuss your plans with your surgeon.

20. Do I need prophylactic antibiotics before routine dental cleanings? Adult Reconstruction Division no longer requires antibiotics before routine dental work after a joint replacement, if 6-12 weeks have passed from surgery date; however, if dental procedure is due to infection or more involved, then discuss treatment with dentist and the office. Infections in the mouth can travel to the knee joint.

21. When can I return to work? In general for a desk job, anywhere from 2-6 weeks, for a more labor-intensive job, it could be 3-4 months.

22. What other educational resources do you recommend?
   - https://orthosurgery.ucsf.edu/
   - https://aaos.org/

23. What equipment is needed after surgery?
   - Ice/Gel pack (suggestion: large 12 x 18 ColPaC from Amazon.com)
   - Walker/Crutches (provided by Hospital)
   - Raised toilet seat / commode (large retail pharmacies carry most of these items)
   - Reacher-grabber (Amazon.com or retail pharmacy) [optional]
   - Shoe horn, sock aid, long handle sponge [optional]
Post-op Recovery Road Map

Recovery Phase | Normal | Abnormal or concerning symptoms: Call Clinic
--- | --- | ---
**Early: Weeks 1-4** | | ♦ Dressing is >80% saturated with blood or drainage
• Increasing pain and swelling post-op days 3-7
• Blisters around dressing/incision area
• Bruising up and down the leg, especially behind the leg or around foot/ankle
• Temporary increase in pain and swelling AFTER any exercise or activity
• Clicking sounds from KNEE – usually resolves in 2-4 weeks
• Fever >102° (39c) that does not improve within 12-24hrs even with Acetaminophen, especially if accompanied by body aches, chills, or nausea and vomiting
• Calf pain with increasing heat, redness, and swelling that does NOT improve with any kind of icing/elevation after 2-3 hrs
• Suddenly unable to bear weight on operative leg IF you were already full weight bearing (especially HIP patients)

Post-op Day 1
Home or to be discharged home soon from hospital
- Pain + Swelling
- Bruising
- Temperature

Post-op Day 3
Pain + Swelling increases; Bruising becomes apparent. Do not OVERDO exercises/activities
- Pain + Swelling

Post-op Day 5
Pain + Swelling may continue to increase; Bruising may intensify; Temperature may fluctuate
- Post-op Day 10
Pain + Swelling improve; continue gentle home exercises and stretches; Stay Mobile
- Post-op Day 14
Acute recovery period closes; Pain + Swelling improve

Post-op Days 15-20
KNEES: Start OP PT – focus on FLEXION; Nylon Sutures removed (if applicable)
- Post-op Day 21
KNEES: continue OP PT; HIPS: may consider starting OP PT; Bruising is mostly resolved
- Post-op Week 6
Resume low impact activities and/or gym; HIPS: precautions may be lifted (if applicable)

Post-op Week 8
Most soft tissue is healed; nerve discomfort improves and may completely resolve

Post-op Day 28, Week 4
Post-op exam + x-rays; May resume driving; Resume most activities, including work; May resume swimming and tub baths
- Post-op 4 months
Swelling and soreness may fluctuate for 2-4 mo depending on activity level

Post-op 3 months
HIPS: Most of your strength and endurance returns; may resume all outdoor activities as tolerated

Post-op 6 months
KNEES: May take 6-12 mo to fully regain strength and endurance; may resume all outdoor activities

1 yr Post-op
Schedule 1 yr exam + x-ray
Hip and Knee Replacement Classes

Presented by UCSF Nurse Patient Navigators: Erica Suk, RN and Rachael Wynne, RN
Department of Orthopaedic Surgery

Classes are available via Zoom

Knee Replacement Class
2nd and 4th Monday and Thursday of each month
1:00PM-2:30PM

Hip Replacement Class
1st and 3rd Monday and Thursday of each month
1:00PM-2:30PM

Contact us to register for an upcoming class

Erica Suk, RN  Rachael Wynne, RN
415-514-6148  415-514-8421
Erica.suk@ucsf.edu  Rachael.wynne@ucsf.edu

A video version of our classes are also available.
Youtube.com: search “UCSF preparing for hip surgery” and “UCSF preparing for knee surgery” 4 parts total

Zoom links and passwords will be provided via UCSF Mychart