

A photograph of an elderly couple smiling and embracing on a beach. The man is wearing a light yellow shirt and the woman is wearing a pink cardigan. In the background, there is a wooden pier extending into the ocean under a bright sky.

HSS

HOSPITAL FOR **SPECIAL SURGERY**

YOUR PATHWAY TO RECOVERY

A Patient's Guide to

Total Joint Replacement Surgery (Hip and Knee)

YOUR PATHWAY TO RECOVERY

A Patient's Guide to Total Joint Replacement Surgery (Hip and Knee)

DEVELOPED BY:

Members of the Interdisciplinary Patient/Family-Centered Education Committee and the Adult Reconstruction and Joint Replacement Service

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ABOUT HOSPITAL FOR SPECIAL SURGERY

Founded in 1863, Hospital for Special Surgery (HSS) is the world's leading academic medical center focused on musculoskeletal health. HSS is nationally ranked No. 1 in orthopedics and No. 2 in rheumatology by U.S. News & World Report (2016-2017), and is the first hospital in New York State to receive Magnet Recognition for Excellence in Nursing Service from the American Nurses Credentialing Center four consecutive times. HSS has one of the lowest infection rates in the country. HSS is an affiliate of Weill Cornell Medical College and, as such, all Hospital for Special Surgery medical staff are faculty of Weill Cornell. The Hospital's research division is internationally recognized as a leader in the investigation of musculoskeletal and autoimmune diseases. HSS has locations in New York, New Jersey and Connecticut.

HOSPITAL FOR SPECIAL SURGERY

535 East 70th Street, New York, NY 10021

TEL 212.606.1000

www.hss.edu

A Patient's Guide to Total Joint Replacement Surgery (Hip and Knee)

Dear Patient,

Welcome to Hospital for Special Surgery (HSS). We are very pleased that you have chosen HSS for your joint replacement surgery, and we are committed to making your recovery a comfortable and successful one. It is with great pleasure that we on the Adult Reconstruction and Joint Replacement (ARJR) Service provide you with a comprehensive overview of your upcoming experience. This manual is your guide. We urge you to read and refer to it frequently, and to bring it with you during your Hospital appointments and visits. Additional information and patient education materials are available for your review on our website www.hss.edu.

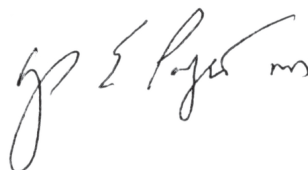
Members of the ARJR service are dedicated to improving the design of joint replacements and the development of newer and less invasive techniques to facilitate a rapid and successful recovery. We appreciate your participation in our research studies and welcome your comments and input to help improve our Total Joint Program. On behalf of all members of our service, we hope that this educational booklet helps answer many of the questions regarding your condition and treatment.

Please feel free to contact the Patient Education staff at 212.606.1263 if you have questions or require additional information.

Sincerely,



Todd J. Albert, MD
Surgeon-in-Chief and
Medical Director



Douglas E. Padgett, MD
Chief, Adult Reconstruction
and Joint Replacement Service



Jack Davis, MSN, RN, ONC
Manager, Patient Education Programs

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Important Telephone Numbers

Hospital for Special Surgery Main	212.606.1000
Admitting Patient Access	212.606.1241
Patient Education	212.606.1263
Case Management	212.606.1271
Spiritual Care	212.606.1757
Access Private Nursing Service	212.774.7187
Physical Therapy	212.606.1221
Food and Nutrition Services	212.606.1293



Before You Come to the Hospital

Total joint replacement (TJR) can enhance your quality of life by providing many years of improved mobility and reduced pain. More than 7 million Americans have had total hip or knee replacement surgery. In the last decade, remarkable advances in technology have transformed TJR into an efficient and widely performed procedure.

Before, during and after your Hospital stay, the members of the Adult Reconstruction and Joint Replacement (ARJR) Service and HSS staff are committed to your well-being and satisfaction. Each attending surgeon is supported by a large staff of fellows, residents, physician assistants, anesthesiologists, nurses, physical therapists, social workers and administrative personnel.

In bringing you the latest advances in TJR, Hospital for Special Surgery, a major teaching affiliate of Weill Cornell Medical College, combines world-class professionalism with personalized care. The Hospital's outstanding diagnostic, surgical and rehabilitation divisions offer a complete array of services.

The staff at HSS is here to serve you. Help us help you; any medical concerns should be discussed with your surgeon and unresolved administrative issues with your surgeon's office manager. Your active participation in treatment, with full understanding of all issues, is vital to your uneventful recovery.

Things to Do

1. Before your surgery, you will be scheduled for **an appointment with an internist** at HSS who will:
 - Review and/or perform any necessary diagnostic tests.
 - Perform a medical exam to make sure you are safe for surgery.
2. Unless you are told otherwise, continue to take medication already prescribed by your own physician.
 - Consult your physician regarding aspirin products.
Patients with cardiac stents should continue to take their aspirin or other blood thinning products.
3. You will also be scheduled for **presurgical testing** approximately 1 to 3 weeks prior to surgery where:
 - You will check in on the first floor to Patient Access Services on the day of your presurgical testing.
 - The presurgical screening staff will perform routine diagnostic testing to be sure you are ready for surgery, including taking a blood sample for testing, a urine specimen and an electrocardiogram (EKG).
 - You should bring a list of current medications and a detailed account of prior medical, surgical and family health history.
 - The nursing staff will request and review information as part of a comprehensive medical history to add to your patient database profile.
 - The nursing staff will provide instruction on preparation for surgery.
4. HSS staff will **make an appointment for you to attend the preoperative patient education** class. The class is approximately 60 to 75 minutes long. During the class, patient educators will:
 - Review the surgical process.
 - Discuss setting realistic expectations, patient safety, mobility, pain management and the prevention of complications (infection and blood clots).
 - Provide information about:
 - Skin preparation, nutrition and diet restrictions before surgery.
 - The preoperative patient phone call and how patients obtain general presurgical information. The preoperative

phone call to the patient the day before surgery will include:

- Specific medication and diet instructions.
- The time and place to arrive.

5. You may wish to review and plan your post-Hospital care with **Case Management Services** (212.606.1271) before admission. The **Preadmission Program** offers patients and their families the opportunity to receive assistance before the patient is admitted for surgery. This program enables you to plan your hospitalization and discharge needs in a timely, comprehensive manner.
6. Prepare for your return home from the Hospital. It helps you maximize your options and make decisions in a more relaxed way.

All patients must call the Hospital's presurgical information line at 212.606.1630 and listen to a pre-recorded message within 48 hours of your scheduled surgery for general instructions and a review of the pre-Hospital process.

7. Please complete the **Health Care Proxy** form and bring it with you on the day of admission. (Or bring one you may already have previously completed.) This is a form authorizing another person, designated by you, to make decisions with your physician about your care, should this become necessary.
8. A nurse from the Call Center will contact you one business day prior to your surgical date (Friday for Monday surgical cases) with more detailed instructions, usually between 1:00 pm and 7:00 pm.
9. Wash the surgical area (front, side and back) with the antiseptic soap solution at the end of your last bath or shower before surgery.

The solution should be rinsed and removed after application. Do not **shave** your legs the day before or the day of surgery. Specific instructions will be provided at the presurgical screening appointment, the preoperative education class and during the preoperative phone call.

10. Please DO NOT bring the sleep apnea machine. Patients with sleep apnea are generally required to stay overnight in the Post-Anesthesia Care Unit (PACU) to be monitored and observed. Do not bring in the machine, but please bring in the mask, tubing and settings.
11. The use of nicotine products (i.e., cigarettes, cigars, gum or patches) has been shown to increase risk of complications following surgery. They can inhibit bone and wound healing by decreasing blood flow to the surgical site. They can also increase the risk of deep vein thrombosis (DVT) a.k.a. blood clots. Please discuss smoking cessation with your doctor.
12. You, your family member or support person will be instructed to go to the Patient Access Services in the first floor lobby.

Extremely Important

Always have a list of your current medications and the dosage to ensure that the correct medication and dosage can be prescribed for you while you are in the Hospital. You should also have contact information for your local physician, and any details on medical information, allergies or past reactions to anesthesia.

Be sure you understand all preoperative instructions. If you have questions or concerns, please discuss them with your surgeon or call the [HSS Patient Education team at 212.606.1263](tel:212.606.1263).



Your Diet and Preparing for Surgery

The presurgical diet guidelines below are for general purposes only. Your physician or surgeon may require you to follow an alternative plan. In that case, follow your physician’s instructions rather than the guidelines below.

FOURTEEN DAYS PRIOR TO SURGERY

- ✓ Stop all nutritional and herbal supplements (vitamins/minerals/herbals).
- ✓ **EXCEPTIONS** – The following are OK to continue: calcium, iron and vitamin D.

THE DAY BEFORE SURGERY

- ✓ Follow your regular diet.
- ✓ Do not eat any solid food after midnight.
(CLEAR FLUIDS ONLY after midnight)

DAY OF SURGERY

- ✓ IF INSTRUCTED, drink carbohydrate-rich drink
(Ensure Clear) 3 hours before procedure
- ✓ Take CLEAR FLUIDS ONLY up to 3 hours before surgery OR up until your ARRIVAL AT THE HOSPITAL if greater than 3 hours prior to surgery
- ✓ DO NOT eat or drink anything after arriving at the hospital

CLEAR FLUID DIET (ANY MEAL)

ALLOWED

Water (plain, carbonated or flavored)
Apple, cranberry and grape juice
Sports drinks such as Gatorade, Propel or Powerade
Black coffee or tea
Clear broth
Ginger ale and seltzer
Jell-O, popsicles and Italian ice
Ensure **Clear**®

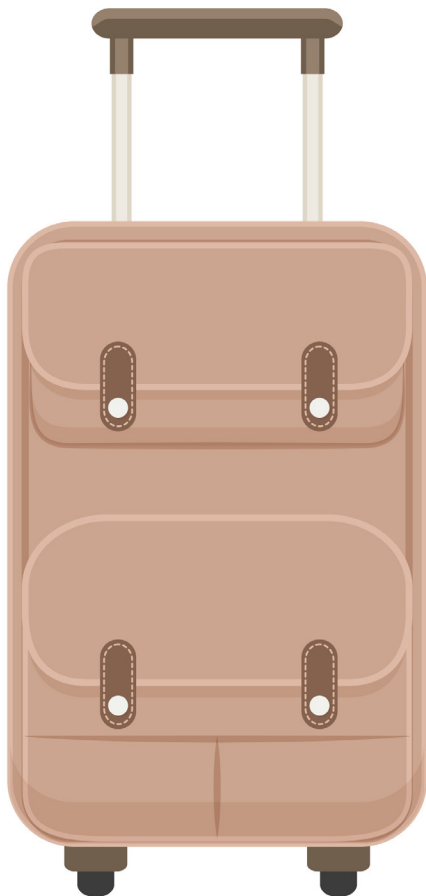
NOT ALLOWED

Milk or dairy products
(including in coffee and tea)
Citrus juices
Prune juice
Juices with pulp
Any food or beverage not listed in the “allowed” column

When You Come to the Hospital

Please pack lightly as HSS staff cannot store multiple bags. Please pack your belongings in a small bag. Belongings must fit into a storage bag issued by HSS. Your belongings will be secured and stored for you.

Please do not bring in any rolling suitcases or luggage.



When You Come to the Hospital

A Checklist for an Average 24-48 Hour Stay

- ☐ A legal picture identification (driver's license, passport, birth certificate, social security card, green card/permanent resident card, military ID). A copy is acceptable.
- ☐ Your hospitalization insurance cards
- ☐ X-rays or laboratory reports (if instructed by the staff)
- ☐ Any assistive device you use (e.g., cane, walker)
- ☐ Your completed Health Care Proxy form
- ☐ Paperwork, including consent forms, sent to you by your surgeon. Also bring a list of your current medications with dosages and medical information from your physician.
- ☐ This manual: *Your Pathway to Recovery: A Patient's Guide to Total Joint Replacement Surgery (Hip and Knee)*
- ☐ Nonslip, flat, closed toe, joint-supportive athletic or walking shoes
- ☐ Personal toiletries
- ☐ A small amount of money for newspapers or other incidentals
- ☐ One credit card to purchase necessary medical equipment, or for transportation services
- ☐ A book, magazine or hobby item to occupy time
- ☐ Please remove contacts and wear eye glasses.

Please Do Not Bring

- ☐ Medications, including narcotic substances (unless instructed by your HSS pharmacist). Self-medication during your Hospital stay is prohibited. It may lead to unsafe conditions like overdoses and/or drug interactions.
- ☐ Valuables (except those mentioned above)
- ☐ Jewelry: **Remove and leave at home all piercings and jewelry, including wedding rings** to ensure your safety during your Hospital stay. Otherwise, see a jeweler for assistance for removal if needed.

VISITOR CODE OF CONDUCT

When visiting our patient care units, we ask that you follow the visitor code of conduct for the safety and well-being of our patients.

1. Please be advised that all visitors under the age of 14 are not permitted.
2. Limit the number of visitors to two at a time for each patient.
3. Sleeping in patient rooms is not allowed. Please note, semi-private rooms are not equipped to accommodate visitors wishing to spend the night
4. If the patient you are visiting is sharing a room, please be mindful of the other patient's privacy and need for quiet.
5. Plan on spending just a short time visiting. Although the visit is almost always welcome, it can be very tiring for the patient.
6. Carry on a cheerful conversation in a soft tones.
7. Please silence your mobile phone while visiting.
8. Do not visit if you are unwell, particularly if you have cold or flu-like symptoms or if you have had a stomach upset in the last 48 hours.
9. For the patient's safety, please do not assist patients out of bed. Please contact a clinical staff member for assistance.

For any questions related to the Visitors' Code of Conduct please contact us at 212 774 7547.

Quiet Time

Please help to promote healing by observing quiet time from 10:00 pm to 6:00 am.

During that time, please use soft tones while communicating with your loved ones. Please silence your phones and minimize the volume on your TVs.

Thank you and speedy recovery!

Your Surgery and Hospital Stay

The Day of Surgery

Traveling to HSS

The Hospital is located at 535 East 70th Street on the Upper East Side of Manhattan, between the East River and York Avenue. For physicians, patients and families visiting from out of town, the Hospital is readily accessible by automobile and taxi via all of the major bridges and tunnel routes. Garage parking is available nearby; street parking is subject to local restrictions. For public transportation options visit hss.edu/public-transportation.





The Day of Surgery

You and the person accompanying you should come to Patient Access Services in the first floor lobby. When you arrive, the Patient Access Services/Admitting staff will process your admission, issue your identification bracelet and direct you to the 4th Floor Family Atrium.

The 4th Floor **Family Atrium** is a lounge area and central hub where our patients and family members meet and wait for information following surgery. It is equipped with comfortable chairs and offers amenities that include a coffee bar, food cart, television services and computer access. The area is equipped with Wi-Fi, and cell phone use is allowed.

Members of the **Same Day Surgery (SDS) nursing staff** will greet and escort you and the person accompanying you to the presurgical holding area. This is where you will meet a **physician assistant (PA)** who will reassess your condition and medical/surgical history. **PAs** are healthcare professionals licensed to practice medicine with physician supervision. As part of their comprehensive responsibilities, **PAs** conduct physical exams, diagnose and treat illnesses, order and review tests, counsel on preventive healthcare, assist in surgery, and prescribe medications. **PAs** work closely with other members of the **operating room (OR)** and **anesthesia teams**. They will finalize your presurgical preparations.

The **SDS nursing staff** will complete your admission process, check your identification band and assist you with changing into our hospital gown. Your belongings, which should fit in one small bag, will be labeled, and will remain with the security department until you are sent to an inpatient room. You should ask the person accompanying you to hold onto your eyeglasses and hearing aids for you, and to return them to you following surgery.

The **SDS nursing staff** will wash and prepare the surgical site area. They will also start an intravenous (IV) line. The IV provides a route for fluids, medications and blood products, if necessary. It is also the main route for your antibiotics to prevent and reduce the risk of infection. The IV bag and tubing will likely be disconnected after 24 hours when your medication is complete and you have tolerated fluids and food. We will keep the IV access secured until you are discharged. A **PA** and other members of your **surgical team** will take your latest



information and perform some additional safety cross-checks and tasks. They will review the surgical consent with you and have you sign the actual consent paperwork. Your surgeon will confirm your identity, review and then sign your surgical site with a surgical marker. These steps are an important part of the process designed to ensure patient safety.

Members of your **anesthesia team** will review and explain the plan for anesthesia, including the type of anesthesia (epidural or spinal), your level of sedation and your postsurgical pain management. The anesthesiologist will also ask you to sign the consent to perform anesthesia. A majority of our TJR patients will receive IV sedation and a combined spinal or epidural anesthetic, in which a narrow catheter (tube) is inserted in the lower spine and allows a continuous flow of anesthetic medication to block all feeling during the surgery. The level of sedation and anesthesia is tailored to your specific needs and will allow you to awaken very soon after the surgical procedure is completed.

Members of the **OR staff** will recheck that all of the appropriate paperwork and tasks have been performed. They will then escort you on a stretcher into one of the operating room suites. The person accompanying you will be instructed to return to the **Family Atrium**.

TJR surgery generally takes approximately 1 to 1 ½ hours, but the actual elapsed time from operating room to post-anesthesia care unit is usually about 2 ½ hours. Your surgeon will provide more specific details and will make arrangements to meet with your family in the **Family Atrium** following surgery, or will make other arrangements to contact them. Please provide the surgeon with specific contact information as to where and how your family can be reached.

The Family Resource Line (212.774.7547) can be utilized if you would like further information on what to expect the day of surgery. Please encourage your visitors to call if they have any questions.



THR



TKR

After Surgery

In the **Post-Anesthesia Care Unit (PACU)**, also called the **Recovery Room**, you will be given oxygen, and your vital signs (breaths, heart rate and blood pressure) will be monitored. The team will also focus on managing your pain so you will be comfortable when you begin rehabilitation. Once in the **PACU**, the person that accompanied you will be provided an update. To maintain patient privacy, as well as to reduce the risk of infection, **PACU** visits are limited. These visits will be facilitated through the **Family Atrium** patient liaisons. One visitor at a time will be allowed during visits. Children under 14 years of age are not permitted. Cell phone use and picture taking is not permitted in the **PACU**.

When the anesthesiologist determines that you are sufficiently recovered, your vital signs are stable and pain is well managed after surgery, you will be transported to an inpatient unit. While most patients are transferred to inpatient units, some remain overnight in the **PACU** for additional monitoring and observation.

Spiritual Support

HSS formally recognizes the role that spiritual support can play in coping with and recovering from physical illness. To help meet your spiritual and emotional needs, HSS provides a chaplaincy service as an integral part of the healthcare team. The chaplains are here to serve you and your family. They provide pastoral support in any faith. Please call 212.606.1757 to contact the HSS Spiritual Care Office.

Private Nursing Service

If you wish to have a private nurse during your Hospital stay, please call 212.774.7187 to arrange for this service.



Recovering in the Hospital

A dressing will be applied to your hip or knee. You may also have a thin tube inserted at the surgical site attached to a drain to prevent accumulation of blood around the muscles and bones of the joint. The tube and drain will likely be removed the day after surgery, and the bandage is removed the first or second postsurgical day.

Members of the nursing staff will position you in bed and help you turn until you are able to move on your own. You may have a pillow between your legs if ordered by your surgeon. Because anesthesia may temporarily inhibit urination after surgery, a Foley catheter may be inserted into the bladder to remove urine. This catheter is usually removed within 24 hours.

In collaboration with you and your support system, the Hospital staff, including a physician, physician assistant, nurse, nurse practitioner, physical therapist and social worker will plan, provide and monitor your care.

Exercise

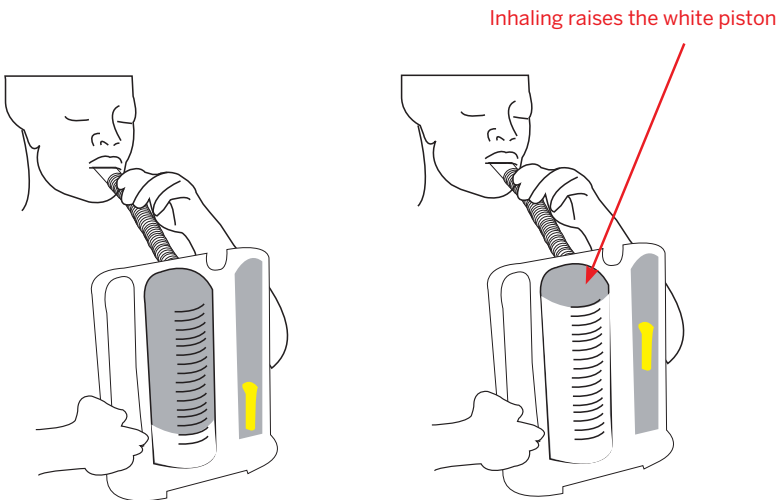
Gentle exercises to improve your range of motion can help prevent circulation problems as well as strengthen your muscles. Very soon after surgery, a physical therapist will teach and review your exercise program.

Deep Breathing

It is extremely important to perform deep breathing exercises after surgery to rid your airway and lung passages of mucus. Normally, you take deep breaths almost every hour, usually without being aware, whenever you sigh or yawn. When you are in pain or are drowsy from anesthesia or pain medication, your breathing may be shallow. To ensure that you take deep breaths, the nursing staff will provide you with a device called an incentive spirometer, along with instructions on its use.

HOW TO USE THE INCENTIVE SPIROMETER

1. Hold the incentive spirometer in an upright position. To start, breathe out (exhale) normally. Then close your lips tightly around the mouthpiece.
2. Take a slow, deep breath in (inhale). Breathe in as deeply as you can. When you breath in, try to keep the yellow cup in the BEST to BETTER flow range. The white piston in the main chamber moves up slowly when you breathe in to measure how deep your breaths are. Try to move the white piston as high up as you can.
3. Relax, remove the mouthpiece and then breathe out normally. The white piston will slowly fall to the bottom of the chamber.
4. Rest for a few seconds. Repeat this exercise at least 10 times every hour while you are awake.



Managing Pain

How Does It Feel?

Recovering from any surgery involves pain and discomfort. The Hospital’s team approach to pain management can help reduce your discomfort and thus speed your recovery. Pain management, however, begins with you. Since no objective tests exist to measure what you are feeling, you must help the staff by describing the pain, pinpointing its location and judging its intensity, as well as reporting any changes. Pain may be constant or sporadic, as well as sharp, burning, tingling or aching. A pain scale is used to help you and the staff gauge the level of pain and effectiveness of treatment.

People used to think that severe pain after surgery was something they “just had to put up with.” While it is reasonable to expect some discomfort following surgery, the current treatment options greatly reduce the level of pain most patients have.

Your description will help us provide you with a plan of care. Even under your personal pain management program, your pain level may change at times. Be sure to tell your nurse if it becomes worse.

You will be asked to rate how much pain you have on the pain scale below and what your tolerable level of pain is:

PAIN SCALE



Your Treatment Plan

Pain control following surgery is an important part of your care. The pain management team will use a multi-faceted approach to manage your pain. This may include a combination of nerve blocks, oral medications, injections, IV medications and catheters connected to computerized pumps with a button that is controlled by the patient (Patient-Controlled Analgesia or PCA). We try to refrain from giving injections, but sometimes this is unavoidable. Our goal is to recognize and treat pain quickly to allow full participation in the exercise program.

The goal is to transition you to oral pain medications. Usually the oral pain medication is an opioid or narcotic, but whenever possible, an anti-inflammatory medication will be ordered as well. This transition is usually a smooth one, enabling you to progress with your activities with minimal discomfort. A short course of prescription pain medication may be recommended at discharge. You will be instructed to use as needed and directed and how to gradually taper. More information will be provided prior to discharge from the Hospital.

Every patient's experience is unique. If you need pain medication, tell your nurse as soon as the pain starts. Keep in mind that your pain is easier to control if you do not allow it to become severe before taking pain medication. Usually medications are available every 3 to 4 hours as needed.

Please let us know if your pain is not getting relieved. We want you to be as comfortable as possible while you heal. Being able to participate in your own recovery activities is a goal of the recovery process.

It is extremely important that you inform your anesthesiologist about any problems encountered with medications of any type in the past, and if you are currently using prescription medications for pain.

What Is Patient-Controlled Analgesia (PCA)?

PCA is a type of pain medication delivery system which utilizes a microprocessor (computerized pump) to give a prescribed amount of medication at desired intervals. A special pain management team consisting of anesthesiologists, nurses and pharmacists supervises your use of the medication.

The pump is programmed to deliver a pain medication either when you push the button (demand dose) or by a continuous flow (basal rate). It can be attached through either your intravenous line or epidural tubing in your back during your surgery. It is called “Patient Controlled” because, if needed, you can press a button attached to the pump to give yourself a dose of pain medication.



PCA Pump

Precautions against an overdose have been incorporated into PCA. The pump is programmed not to deliver the dose of pain medication requested if it is not time to safely do so. There is an hourly limit of medication available. The PCA system automatically records both the doses delivered and denied. Your nurse checks this machine frequently and records the amount of medication used. If you are having pain after using your PCA hourly limit, tell your nurse. The nurse can call the anesthesiologist or other members of the pain management team who will check on you and adjust the medication or PCA settings as needed.

The nurses regularly check on you to evaluate your level of pain relief and assess for side effects. An anesthesiologist visits daily when you are on the PCA pump, even if your pain management is going well. If any problems arise, an anesthesiologist is on call 24 hours a day, 7 days a week.

Epidural PCA

Patients who have surgery on the hips or knees may have epidural anesthesia. After a local anesthetic injection, a catheter (very thin tubing) is placed in your back for administering the anesthesia for your operation. Afterwards, by starting a flow of pain medicine through this catheter, pain relief can be continued into the postoperative period. The PCA is attached to the epidural catheter in your back. As described above, you will be able to give yourself an extra dose of medication, if needed, to make the pain tolerable.

IV PCA

If the anesthesia used for your surgery was not epidural anesthesia, or if your surgeon and anesthesiologist feel an IV is the preferred method of applying pain control, the PCA pump will be attached to IV tubing. This means that the PCA pump will be programmed to inject pain medication directly into your blood stream. Again, you can give yourself an extra dose of medication, if needed, just by pressing the button attached to the PCA pump.

Local Injections During Surgery

Some surgeons prefer to treat pain during the surgical procedure by injecting a combination of medications directly into the tissues close to the surgical site (local).

Oral Medication

After surgery, as pain decreases, you will be given oral pain medication to control any discomfort and pain.

Cold Therapy

The application of cold has been shown to reduce swelling and pain associated with inflammation at the surgical site. Ice packs or cold pads should be applied for 20 minute intervals every 3 to 4 hours on a daily basis for the first few weeks following surgery.

Rehabilitation in the Hospital

Your rehabilitation program will begin once you are medically stable and there are orders from your doctor to begin postoperative mobility. Everyone will begin rehabilitation within 24 hours of surgery.

It is critical to understand that motivation and participation in your physical therapy program is a vital element in the success of your surgery and your overall recovery. It is imperative that you play an active role in your recovery and rehabilitation from the start!

The physical therapist will assist you in the following activities:

- Sitting at bedside with your feet on the floor
- Transferring in and out of bed safely
- Walking with the aid of a device (walker, cane, or crutches)
- Climbing stairs

Beginning to Walk

Do not get in or out of bed by yourself! Your therapist will assist you in sitting up with your feet over the bedside with feet resting on the floor. You will then stand with the use of a walker and the continued help of your therapist.

As the days progress, you will increase the distance and frequency of walking. Most patients progress to a straight cane, walker or crutches within a couple of days after surgery.

Call Don't Fall

Always make sure to ring your call bell for staff assistance getting in and out of bed.

- A staff member must remain within your reach while maintaining your privacy and dignity during toileting.



Looking Ahead

Before leaving the Hospital, you will be instructed in a home exercise program.

Remember, YOU Make the Difference!

Your participation in a physical therapy program is essential to the success of your surgery. The more committed and enthusiastic you are, the quicker your improvement will be.

Tips for a Successful Recovery at HSS

Physical Therapy

- Participate in physical therapy daily.
- A physical therapy schedule is available by 8:30 am 7 days a week. Ask your nurse when you are scheduled for therapy so you can be prepared and ready to participate.
- Please note that your scheduled PT time is approximate.

Patient Safety and Falls Prevention

- Do not get out of bed by yourself! Always ask for assistance.
- HSS has developed a Safety and Falls Prevention pamphlet that you should read. If you don't already have one, ask your therapist for a copy.

Bathroom Privileges

- Once you are able to tolerate being out of bed for at least 20 minutes, you will be safe to use the bathroom with assistance.
- If possible, use the bathroom prior to physical therapy so you can use your treatment session to improve functional mobility.
- Bedside commodes or bedpans are alternatives to getting out of bed to use the bathroom.

Inpatient Unit Visiting Hours

- 24 hour visitation permitted.*
- 2 visitors per patient at a time.
- Visitors under the age of 14 are not permitted in inpatient units, PACU or pre-op areas.
- Sleeping in patient rooms is strictly prohibited.
- For patient safety, please do not assist patients out of bed. Contact a clinical staff member for assistance.

*Visitation subject to restrictions based on patient care needs.

Car Transfers and Traveling by Car

Your therapist will review car transfers prior to discharge

- Be sure to remind whoever is picking you up to bring two pillows for comfort.
- Sit in the front passenger seat. Make sure the car seat is all the way back and slightly reclined before entering.
- In a regular car, enter from the street level rather than the curb in order to avoid bending your joint too much.
- In an SUV, you may need to enter from the curb to make it easier to get into the car.

NOTE: Do NOT resume driving until you have your surgeon's permission.

Weightbearing

The amount of weight you can support with your operated leg will depend on your surgery. Your physical therapist will instruct you on the weightbearing status designated by your surgeon.

Preventing Blood Clots

After total joint surgery, clots called deep vein thromboses (DVT) may form in the leg veins. In rare cases, these leg clots travel to the lungs where they may cause additional symptoms. To prevent and reduce the incidence of clot formation, mechanical devices (foot or calf pumps) are used while you are in the Hospital to squeeze the leg muscles, thus maintaining blood flow in the veins. Also, a medication to minimize clot formation, such as warfarin (Coumadin), enoxaparin (Lovenox) or aspirin, will be prescribed.

Leg Swelling

Following TJR, most patients develop swelling in the operated leg. Although the amount of swelling can vary from patient to patient, the swelling itself, in the leg, knee, ankle or foot, is normal and may be accompanied by “black and blue” bruising that will usually resolve gradually over several weeks.

For the first month after your operation, prolonged sitting with your foot in a down position tends to worsen the swelling. You should not sit for more than 30 to 45 minutes at a time. Periods of walking should be alternated with periods of elevating your leg in bed. When elevating the leg, the ankle should be above the level of the heart. Lying down for an hour in the late morning or afternoon helps reduce swelling.

To prevent or reduce leg and ankle swelling:

- Elevate operated leg in bed on one to two pillows while lying flat.
- Avoid sitting for longer than 30 to 45 minutes at a time.
- Perform ankle exercises.
- Apply ice to your surgical area for 20 minutes a few times a day (before and after exercises).
- Some doctors may recommend the use of support hose.

Preparing to Return Home

The majority of patients who undergo a joint replacement are usually discharged from the Hospital within one or two nights after the surgery and many of them are able to return to their home environment.

How the Hospital Can Help

As soon as you decide to have a joint replacement, you and members of your support system must look ahead and start planning for discharge and home recovery. Preparing enables you to concentrate on your main task—getting well. To help you plan for discharge and home recovery, the Hospital's Case Management Department is available at your request.

A case manager is available to you prior to surgery to address any concerns you may have about your discharge from the Hospital. The case manager will review the alternatives available to you based on your medical condition, home and healthcare needs, care arrangements you have already made, geographic location, insurance coverage and financial situation.

Some of the ways the Hospital social work case manager can assist you include:

- Helping you to cope with illness or disability
- Discharge planning
- Long-term planning
- Assessing your eligibility and advising you on benefits you may be entitled to, including SSI (Supplemental Security Income), SSD (Social Security Disability), Medicaid and New York State Disability

The case manager will discuss your post-discharge needs in consultation with your surgeon and other members of your primary healthcare team. Your involvement is essential in formulating a discharge plan that will suit your needs.

The Hospital's Case Management Department (tel: 212.606.1271) is available to assist you in planning for your discharge and home recovery.

FINAL STEPS: AT HOME

Guidelines for Recovering at Home

Please do not hesitate to contact your surgeon with any questions you have about the following instructions.

Consult with your internist about duration and dosage of iron.

Caring for the Surgical Site

Depending on how your incision is closed, your nurse will review care instructions with you.

- 1) Many skin incisions are closed with Dermabond or a glue like product. If so, you will be able to shower.
- 2) Some incisions are closed with stitches or staples, usually removed in 7 to 10 days. The staff will provide specific instructions about showering and care of the incision.
- 3) Please inform your surgeon if you notice increasing redness or drainage from your incision.

Pain Medication

- 1) Take your pain medication as prescribed, but expect to use less after the first week or so.
- 2) Take your pain medication before the pain becomes severe. Use cold therapy and other measures to help reduce discomfort.
- 3) If your pain medication seems weak or you are experiencing unpleasant side effects, do not hesitate to call your surgeon's office.
- 4) If you are taking pain medication, avoid alcoholic beverages.
- 5) It is important to notify your team if you require additional pain medications. The surgeon and nurse practitioners will customize your plan to meet your needs. Call the surgeon's office before your supply runs too low, 1-3 days before you are likely to run out. No medications will be refilled on weekends.

Preventing Infection (Antibiotic Prophylaxis)

It is very important that you protect your artificial joint from potential infection. Some patients have increased risk following total joint surgery, as an infection can spread to the new joint through the bloodstream (the medical term for this is “hematogenous spread”) from another source in your body. Please tell all of your health providers that you have an artificial joint as they may need to prescribe antibiotics before treatment. This is especially important before dental procedures and invasive urinary procedures. If you are not sure whether a procedure you are having is invasive, play it safe and inform your surgeon, who will provide additional instructions.

The following is based on the American Academy of Orthopaedic Surgeons (AAOS) guidelines and recommendations published in The AAOS Bulletin, July, 1997, and also in the Journal of American Dental Association, 1997, 128:1004-1008, to help show when antibiotic treatment is indicated.

Patients at potential increased risk of hematogenous total joint infection include:

- Patients who are immunocompromised or immunosuppressed:
 - Inflammatory joint arthritis, rheumatoid arthritis, systemic lupus erythematosus
 - Disease, drug or radiation-induced immunosuppression
- Other patients:
 - Insulin-dependent (Type 1) diabetes
 - Within two years following joint replacement
 - Previous prosthetic joint infections
 - Malnourishment
 - Hemophilia

Dental Procedures

There is a higher incidence of infection with certain dental procedures (procedures more likely to have bacteria enter the bloodstream):

- Dental extractions
- Periodontal procedures including surgery, subgingival placement of antibiotic fibers/strip, scaling and root planning, probing, recall maintenance
- Dental implant placement and reimplantation of avulsed teeth
- Endodontic (root canal) instrumentation or surgery only beyond the apex
- Initial placement of orthodontic bands, but not brackets
- Intraligamentary local anesthetic injections
- Prophylactic cleaning of teeth or implants where bleeding is anticipated.

For at least two years following surgery, please be sure to tell your internist and dentist that you have an artificial joint so that they can prescribe antibiotics prior to the above procedures. If you have any questions or concerns, please call your surgeon's office.

The suggested antibiotic regimen is as follows:

- For patients not allergic to penicillin:
 - Cephalexin, cephradine or amoxicillin 2 grams orally 1 hour prior to the dental procedure
- For patients not allergic to penicillin but unable to take oral medications:
 - Cefazolin 1 gram IM/IV 1 hour prior to the dental procedure
- For patients allergic to penicillin:
 - Clindamycin 600 mg orally 1 hour prior to the dental procedure
- For patients allergic to penicillin and unable to take oral medications:
 - Clindamycin 600 mg IM/IV 1 hour prior to dental procedure

All total joint replacement patients should adhere to this regimen **for at least 2 years following joint replacement surgery.**

Some surgeons may recommend using antibiotics for longer than 2 years and will communicate that to their patients.

Immunocompromised patients, including those with inflammatory arthropathies, rheumatoid arthritis, drug or radiation induced immunosuppression, insulin-dependent diabetes, or any other major medical problems, should follow this antibiotic routine indefinitely.

Antibiotics may reduce the risk of infection, but cannot completely eliminate that risk. Preventing infection must be the concern of **YOU** and all the healthcare professionals who treat you.

The lower incidence of bacteremic dental procedures

(procedures less likely to have bacteria enter the bloodstream) occurs with the following dental procedures and, therefore, you do not need to take antibiotics before receiving them:

- Restorative dentistry (operative and prosthodontic) with/without retraction cord
- Local anesthetic injections (non-intraligamentary)
- Intracanal endodontic treatment, post placement and buildup
- Placement of rubber dam
- Postoperative suture removal
- Placement of removable prosthodontic/orthodontic appliances
- Taking oral impressions
- Fluoride treatments
- Taking oral radiographs
- Orthodontic appliance adjustment

Please note that these are guidelines for suggested regimens. The clinical judgment of the care provider may indicate antibiotic use in selected circumstances with procedures that may create significant bleeding.



Your New Joint Is Different

Recovery from surgery takes time. You will likely feel tired and fatigued for several weeks and this is a normal response. It is important to plan periods of rest throughout the day. You may experience skin numbness around your incision and joint stiffness. This is normal. At times, you may notice clicking. This is common and is due to the plastic and metal implant surfaces rubbing together. These symptoms will gradually improve over several weeks and months. The benefits of joint replacement usually become fully evident 6 to 8 months after surgery.

Recovery at Home

During the first few weeks at home you will begin to adapt what you learned in the Hospital to your own setting. **Prior to surgery**, you will need to prepare your home for recovery.

- Store items within easy reach. Take items you may need out of low cabinets or shelves prior to surgery because you will not be able to reach them after surgery.
- Prepare meals ahead of time and store in the freezer. Have your favorite home delivery numbers handy!
- Ask a family member or support person to be available to assist with your care.

Safety Checklist

- ☐ Reduce clutter
- ☐ Remove loose wires and cords
- ☐ Smooth rugs and anchor to the floor
- ☐ Place nonskid tape or mats at the sink
- ☐ Use a nightlight in the bathroom and hallway
- ☐ Turn on lights when you get up at night
- ☐ Secure rugs and treads on the stairs

Physical Therapy Exercise Program

Postoperatively, it will be important to perform the following exercises with the appropriate number of repetitions as instructed by your physical therapist.

It is normal to experience some discomfort while doing your exercises. Take your pain medication prior to doing your exercises in order to make it easier for you.

You will find in your corresponding section a list of all the possible exercises that are prescribed after TJR surgery. **Please only follow the exercises given by your physical therapist at the Hospital after surgery.**

Stairs

Your physical therapist will teach you how to properly go up and down stairs prior to being discharged home. It is helpful to have a handrail to hold onto when going up and down the stairs for safety after surgery. Think about your stairs at home and make sure they are safe prior to surgery so that proper arrangements can be made.

One Total Joint Replacement

Upstairs:

1. The non-operated leg goes first.
2. Operated leg goes second.
3. The cane or crutches go last.

Downstairs:

1. The cane or crutches go first.
2. The operated leg goes second.
3. The non-operated leg goes last.

Bilateral Total Joint Replacements

Upstairs:

1. The stronger leg goes first.
2. The weaker leg goes second.
3. The cane or crutches go last.

Downstairs:

1. The cane or crutches go first.
2. The weaker leg goes second.
3. The stronger leg goes last.

Outpatient Physical Therapy

Our physical therapists at the following locations are specialists in arthritis and joint replacement. Services provided include preoperative and postoperative care, and one-time follow-up appointments.

Locations:

Orthopedic Physical Therapy Center

2nd floor of main hospital
Tel: 212.606.1213

HSS Westchester

1133 Westchester Avenue
White Plains, NY 10605
Tel: 914.821.9300

HSS Paramus

140 East Ridgewood Avenue
Suite 175 S.
Paramus, NJ 07652
Tel: 201.599.8000

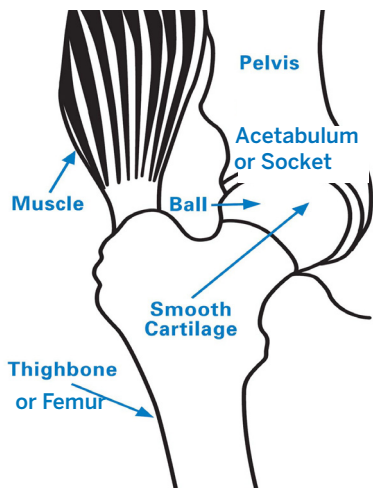
HSS Rehabilitation Network

Available in various locations
throughout the Tri-state area.
Tel: 212.606.1317 or
1.800.493.0039

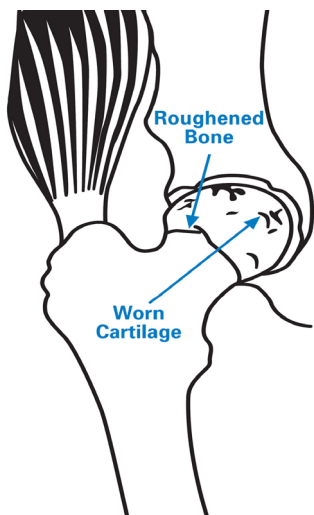
Please contact us with any questions at these locations.

A Closer Look at Total Hip Replacement (THR)

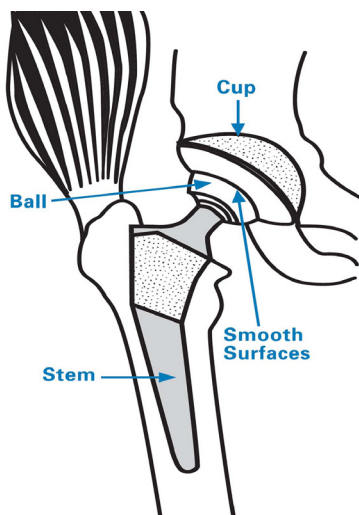
To understand THR, you should be familiar with the structure of the hip joint, a ball-and-socket joint. The ball component is attached to the top of the femur (long bone of the thigh). The acetabulum (socket) is part of the pelvis. The ball rotating in the socket permits you to move your leg forward, backward and sideways, i.e., in all planes of motion.



With a healthy hip, smooth cartilage covering the ends of the thigh bone and pelvis allows the ball to glide easily inside the socket.



With a problem hip, the worn cartilage no longer serves as a cushion. As the diseased or damaged bones rub together, they become rough, and the resulting pain causes difficulty in walking.



THR consists of replacing the worn out socket with a durable plastic or polyethylene cup with or without a metal titanium shell. The femoral head is replaced with a chromium-cobalt alloy metal ball that is attached to a metal stem of titanium or chromium cobalt metal alloy.

There are several ways to fasten the components (implant to the bone) during the hip replacement procedure. With a cemented THR, the prosthesis is held in place by bone cement. In a non-

cemented THR, fixation occurs as the bone grows on and into the implant surface.

Bearing surfaces include metal-on-polyethylene (plastic), ceramic-on-ceramic and metal-on-metal. The most commonly used FDA approved bearing surface is metal with highly cross-linked polyethylene. The best bearing surface for you will be decided in consultation with your surgeon.

Clinical and biomechanical research has steadily improved the methods and materials available for THR. Prosthesis durability varies with the usage demands of each patient.

Leg Length After Surgery

After surgery, it is common for the operated leg to “feel longer” than the non-operated leg. This is usually due to tight muscles, especially your hip abductors, which are located on the outside of the leg. These muscles, which are usually tight before surgery, can create imbalances in your pelvis, creating an apparent discrepancy in your leg lengths. After surgery, the natural joint space of your hip is restored, and **it will take time** for your pelvis and muscles to adapt to this new normal position. This unevenness can resolve within a week or may take up to 6-8 weeks. Please speak with your surgeon if you have any specific questions.

Occupational Therapy

An occupational therapist will work with you on an as needed basis in order to prepare you for home. The therapist may instruct you in functional activities, such as bathing, showering and toileting, based on your specific precautions as determined by your surgeon.

A Daily Activities video series can be found under the Rehabilitation Guide menu on the rehabilitation microsite provided to you.



Total Hip Information and Physical Therapy

The following exercises should be performed **ONLY IF INSTRUCTED** by your physical therapist.

1) Ankle Pumps:

Purpose: To promote blood circulation in the lower legs

- Lie on your back with both legs straight.
- Bring your feet upwards, “toes to your nose,” moving them from the ankle.
- Now point both feet downwards, like pressing on a gas pedal.
- Make sure to move the feet and ankles up and down through the full range of motion.
- Perform _____ repetitions, _____ times daily.



2) Gluteal Set

Purpose: To help improve the strength of the buttock (gluteal) muscles

- Lie on your back with both legs straight.
- Gently squeeze your buttocks together so that your pelvis rises slightly.
- Hold this contraction for 5 seconds then slowly release.
- Rest between each contraction.
- Perform _____ repetitions, _____ times daily.

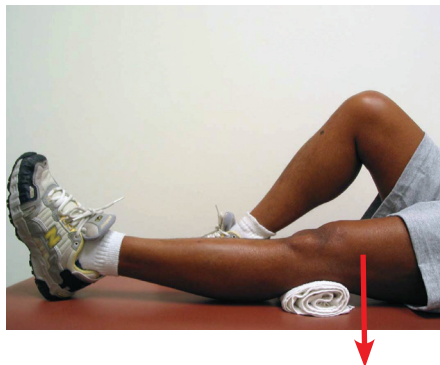


NOTE: You do not need to use your hands to complete this exercise. Use only your buttocks muscles to complete the exercise.

3) Quadriceps Set

Purpose: To help strengthen the front thigh muscles (quadriceps)

- Lie on your back with a small towel under the knee on the operated side. (Towel under the knee is optional, and may improve comfort.)
- Slowly tighten your thigh muscle (quadriceps) by pushing the back of your knee down into the bed.
- Do not let your heel come off the bed
- Hold this contraction for 5 seconds, and then slowly release.
- Rest between each contraction.
- Perform _____ repetitions, _____ times daily.



4) Heel Slides

Purpose: To help strengthen the hip/thigh muscles and encourage movement of the entire lower extremity

- Lie on your back with both legs straight.
- Slowly slide your heel toward your buttock.
- Bend the hip and knee of your operated leg to a 45° angle.
- Maintain your hip precautions by making sure the head of the bed is not elevated and that you do not bend the hip more than 45°.
- Perform _____ repetitions, _____ times daily.



NOTE: This is one of the harder exercises that you will perform. Do not be discouraged if you are unable to immediately bend your hip and knee all the way to a 45° angle. This exercise will become easier as you practice.

5) Seated Hip Flexion (less than 90°)

Purpose: To help strengthen the front hip muscles (hip flexors)

- Sit in a high chair or a regular chair with two firm pillows. Lean back in chair, maintain your hip precautions.
- Slowly flex your hip by lifting the foot of your operated leg off the floor keeping your knee bent.
- Slowly lower the foot back down to floor.
- Perform _____ repetitions, _____ times daily.



6) Standing Hip Extension

Purpose: To help strengthen the muscles that extend the hip (hamstring and gluteal muscles)

- Stand with trunk straight and hold on to a stable object that is approximately waist height (i.e., a counter or sturdy chair) for support.
- Extend operated leg backwards, moving from the hip and keeping leg straight at the knee.
- DO NOT bend forward, keep trunk straight.
- Perform _____ repetitions, _____ times daily.



7) Standing Hip Abduction

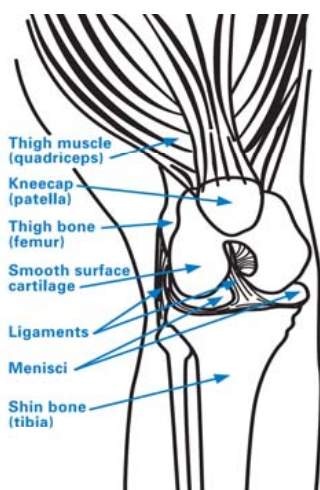
Purpose: To help strengthen the muscles that move the leg out to the side of the body (abductors)

- Stand with trunk straight and hold on to a stable object that is approximately waist height (i.e., a counter or sturdy chair) for support.
- Slowly raise leg out and away from the side of the body.
- DO NOT lean sideways, keep trunk straight.
- Perform _____ repetitions, _____ times daily.



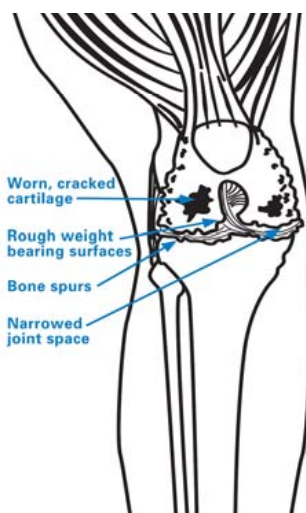
A Closer Look at Total Knee Replacement

To understand TKR, you should be familiar with the structure of the knee, a complex joint consisting of three bones: the femur (thigh bone), the tibia (shin bone) and the patella (kneecap). When you bend or straighten your knee, the end of the femur rolls against the end of the tibia, and the patella glides in front of the femur.

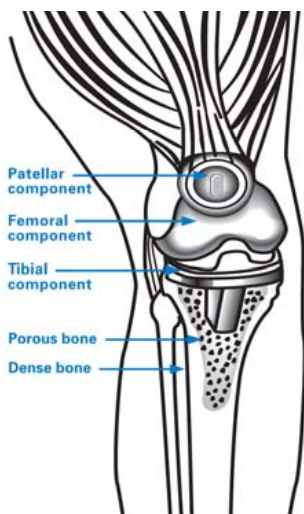


With a healthy knee, smooth, weightbearing surfaces allow for painless movement. Muscles and ligaments provide side-to-side stability.

A membrane lines the joint. Cartilage acts as a cushion between the femur and tibia and is lubricated by synovial fluid.



With an arthritic knee, the cartilage cushion wears out. The bones rub together and become rough. The resulting inflammation and pain cause reduced motion and difficulty in walking.



The weightbearing surfaces of a TKR are smooth, as in a normal knee. A femoral component covers the end of the thigh bone, a tibial component covers the top of the shin bone and the patellar component covers the underside of the kneecap.

Most femoral components are metal alloys (cobalt chromium) or metal ceramic alloys (oxidized zirconium). The patellar component is plastic (polyethylene).

The tibial insert component is also plastic (polyethylene).

The tibial tray component can be made of the following materials:

- Cobalt chromium (metal alloy)
- Titanium (metal alloy)
- Polyethylene (plastic)

Clinical and biomechanical research has steadily refined knee replacement methods and materials. Prosthesis durability can vary from patient to patient because each patient's body places slightly different stresses on the new knee. However, the average patient can expect to obtain greater mobility and freedom from pain, which will, in turn, improve ability to walk.

Total Knee Information and Physical Therapy

The following exercises should be performed **ONLY IF INSTRUCTED** by your physical therapist.

1) Ankle Pumps:

Purpose: To promote blood circulation in the lower legs

- Lie on your back with both legs straight.
- Bring your feet upwards, “toes to your nose,” moving them from the ankle.
- Now point both feet downwards, like pressing on a gas pedal.
- Make sure to move the feet and ankles up and down through the full range of motion.
- Perform _____ repetitions, _____ times daily.



2) Gluteal Set

Purpose: To help improve the strength of the buttock (gluteal) muscles

- Lie on your back with both legs straight.
- Gently squeeze your buttocks together so that your pelvis rises slightly.
- Hold this contraction for 5 seconds then slowly release.
- Rest between each contraction.
- Perform _____ repetitions, _____ times daily.



NOTE: You do not need to use your hands to complete this exercise. Use only your buttocks muscles to complete the exercise.

3) Quadriceps Set

Purpose: To help strengthen the front thigh muscles (quadriceps)

- Lie on your back with a small towel under the knee on the operated side. (Towel under the knee is optional, and may improve comfort.)
- Slowly tighten your thigh muscle (quadriceps) by pushing the back of your knee down into the bed.
- Do not let your heel come off the bed.
- Hold this contraction for 5 seconds, and then slowly release.
- Rest between each contraction.
- Perform _____ repetitions, _____ times daily.



4) Active Range of Motion (AROM)

- Sit in a chair, resting your foot on the floor on a paper towel or pillowcase to allow your foot to slide more easily.
- Bend operated knee as far back as you can using your muscles.
- Hold for _____ seconds.
- Perform _____ repetitions _____ times daily.



5) Active Assisted Range of Motion (AAROM)

- Sit in chair and allow operated leg to dangle, or sit with your foot on floor as described in exercise #3.
- Bend operated knee as far back as you can using your muscles.
- Then cross your non-operated leg on top and give it a gentle stretch back. Keep your pelvis level and do not lift your hip off the surface you are sitting on.
- Hold for _____ seconds.
- Perform _____ repetitions _____ times daily.



6) Active Knee Extension

- Sit on chair or bed with your thighs supported on the surface.
- Extend your operated leg up by tightening your thigh and pulling your toes up. Try to fully straighten your operated knee.
- Your thigh should maintain contact with the surface you are sitting on.
- Hold for _____ seconds and slowly relax your leg.
- Perform _____ repetitions _____ times daily.



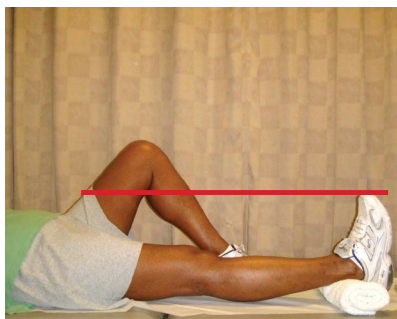
7) Stair Stretch

- Place your operated leg on the second step of your stairs. If you cannot reach the second step use the first.
- Hold onto the hand rails or wall.
- Lean forward while bending your operated knee. Do not bounce.
- Hold for _____ seconds and slowly relax your leg.
- Perform _____ repetitions _____ times daily.



9) Passive Extension

- Lie down with a towel roll under your ankle. Allow your knee to stretch into full extension.
- Place an ice pack on your knee.
- Stay in this position for _____ minutes as tolerated.
- Repeat _____ times per day.



Additional Discharge Instructions

- You may have physical therapy at home if it is prescribed by your surgeon. If so, the physical therapist will come to your home and will advance your exercises and walking program as tolerated.
- Gradually increase your walking distance daily. A daily walking program on level surfaces is an essential component of your home exercise program. Avoid hills, steep ramps and uneven surfaces.
- Once your mobility has improved, you may consider continuing physical therapy at an outpatient physical therapy center to continue to increase strength and endurance and optimize your function.
- Contact your surgeon or physical therapist regarding when to stop using an assistive device.

Medical Equipment Order Information

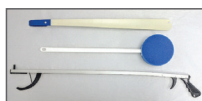
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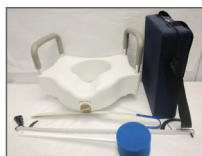
RECOVERY SOLUTIONS

www.biodynamictech.com/shop



Economy Hip Kit

- **Long Handle Shoehorn with soft plastic handle:** for anyone who has trouble bending. Extra long, plastic coated steel shoehorn helps to slide on shoes quickly and with little effort. Features a notch at the end for removing shoes and socks. 24.5" long
- **Long Handle Sponge:** extend your reach for washing the back and lower extremities. Plastic foam sponge has sturdy, molded high impact handle. 22.5" long
- **Reacher:** very useful, practical and handy device helps in dressing and retrieving objects. Magnetic tip, pistol grip.



Deluxe Hip Kit

- **Reacher:** very useful, practical and handy device helps in dressing and retrieving objects. Magnetic tip, pistol grip.
- **Long Handle Shoehorn with soft plastic handle:** for anyone who has trouble bending. Extra long, plastic coated steel shoehorn helps to slide on shoes quickly and with little effort. Features a notch at the end for removing shoes and socks. 24.5" long
- **Long Handle Sponge:** extend your reach for washing the back and lower extremities. Plastic foam sponge has sturdy, molded high impact handle. 22.5" long
- **Elevated Toilet Seat with padded arms:** easy, tool-free, assembly in minutes; fits most standard sized toilet seats; wide contour seat; supports up to 350 lbs.
- **Bio Up Cushion:** perfect for post hip surgery or arthritis of the hip or knees. Adds 4" of height to any chair.



Re-usable Cold Packs

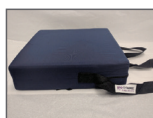
Offer an effective method of applying cold therapy to localized areas. Place the pack in a chilling unit or freezer. Even below freezing packs remain pliable and soft. The cold pack will maintain its therapeutic temperature level for up to 30 minutes. Chilled packs should be wrapped in a towel before applying to treatment area. It is recommended that the pack use not exceed 20 minutes per session.

Packs are made out of durable heavy-duty material.
Sizes available: Standard 11" x 14" and Oversized 11" x 21"



Deluxe Elevated Toilet Seat

- Easy, Tool-Free, Assembly
- Fits most standard sized toilets
- Supports up to 350lbs
- Wide Contour Seat



Bio Up Cushion

Perfect for post hip surgery or arthritis of the hip or knees. Adds 4" of height to any chair. Freedom to move about and be able to sit and stand without assistance. The Bio Up allows post hip surgery patients to rise without fear of hip dislocation resulting in additional surgery. It positions hips and knees at 90°, rising from a seated position easier. Comes with a handy carry strap, is comfortable to sit on and covered with a machine washable fabric.

Individual items may be purchased separately. See website for details.



Joint Commission on Accreditation
of Healthcare Organizations

431 East 73rd Street • New York, NY 10021
1 Madison Street, Suite A4 • East Rutherford, NJ 07073
1-800-879-2276

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- You may purchase these items from your local surgical supply store, online, or from our vendor.
- We recommend that items are purchased prior to surgery.
- Please be advised that items are beneficial after Total Hip Replacement and Total Knee Replacement surgery.
- To order items from our vendor, BioDynamic Technologies, please visit the website <https://www.biodynamictech.com/shop/>
- You have the option of having the items shipped to your home or a family member/friend can pick up at BioDynamic Technologies conveniently located close to HSS.

• **BioDynamic Technologies:** 431 East 73rd Street NY, NY 10021 on the Northwest corner of 73rd Street and York Avenue.



Conclusion

The Patient Education staff and members of the ARJR Service at HSS hope that you find this booklet helpful on your journey to recovery. The process of a total joint replacement is indeed a journey. Its endpoint—improved health and mobility—is well worth the effort. We stand ready to assist you every step of the way. If you have any questions, please feel free to ask any member of our staff. Your well-being is our first concern. We encourage you to seek out additional information that is located on the HSS website at www.hss.edu. There will be many opportunities to review the material provided in this booklet. During each visit, the staff will reinforce the information and will likely provide additional and more specific instructions. In addition, our Patient Education staff will review the information during the preoperative education class and will respond to any questions that you may have.

Can We Help Someone Else?

Now or later, you may have family members or friends who may need the services of an orthopedist (in any specialty area) or a rheumatologist. An easy way for them to get in touch with Hospital for Special Surgery is to call the **HSS Physician Referral Service at 1.800.854.0071.**

Providing Feedback to HSS

You may be able to help us!

Hospital for Special Surgery has achieved a national reputation for excellence in orthopedics, rheumatology and patient-centered care. All of us on the HSS team strive to provide you with the care you need to achieve the best health outcomes.

Feedback from our patients has been a critical component in achieving this excellence. We listen. And we respond...especially when we learn of new opportunities for further improvement.

Another important part of achieving excellence is to know when things go right! We also want to know when our staff members provide outstanding care.

When you have a moment to reflect, we would appreciate your feedback. You can, of course, send a letter or note to any HSS staff person, or to your doctor. You already know your doctor's address. He or she appreciates hearing from you.

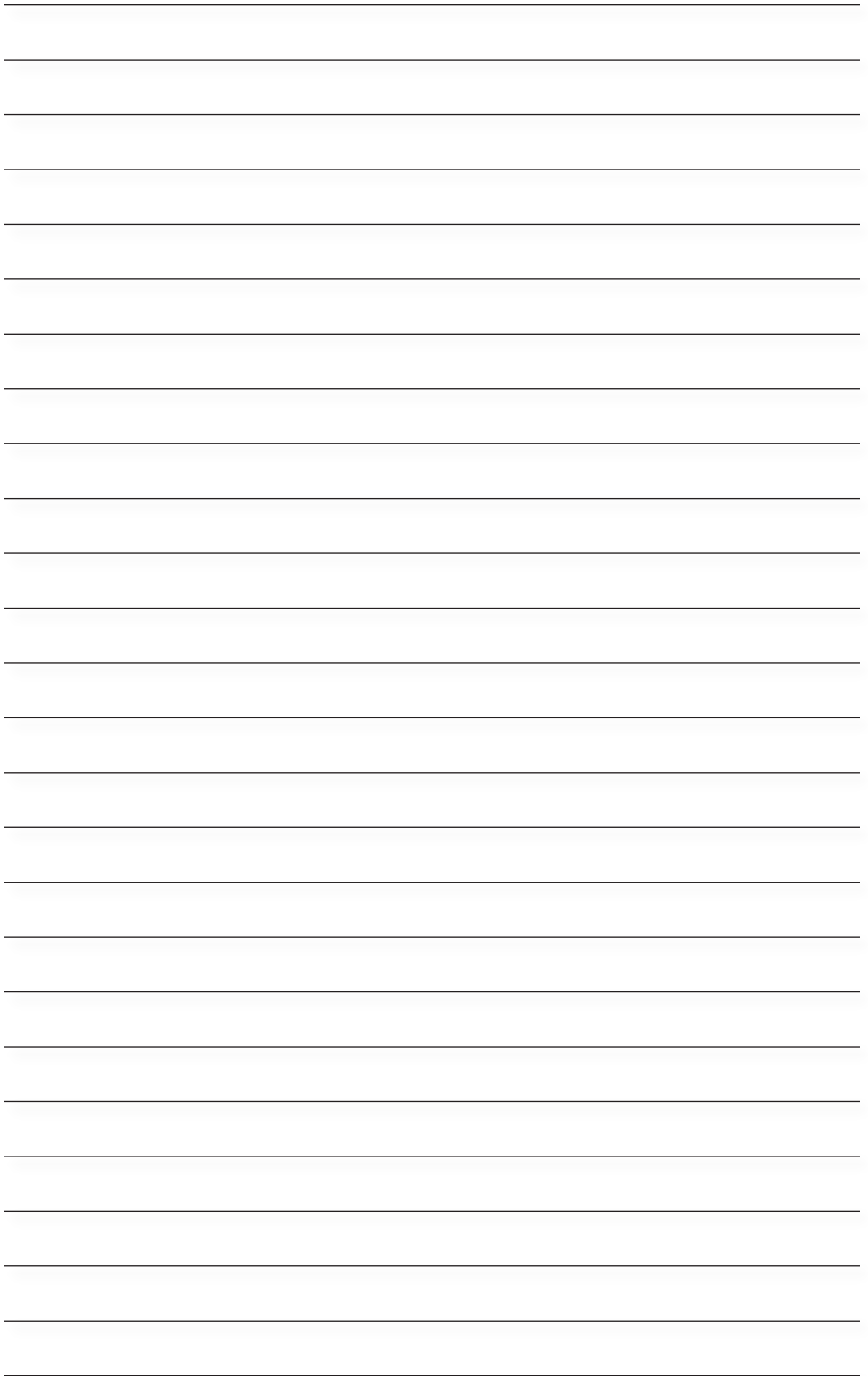
To address a Hospital staff person whom you know, you can write to that person at the Hospital's address below. Or, you can contact us through the Hospital's website. Otherwise, please feel free to address your feedback to:

Louis A. Shapiro, FACHE
President & Chief Executive Officer
Hospital for Special Surgery
535 East 70th Street
New York, NY 10021

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NOTES

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535 East 70th Street
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TEL 212.606.1000
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