Joint Adventures
Hip Replacement

at Northwestern Medicine Kishwaukee Hospital
and Northwestern Medicine Valley West Hospital
Hello and welcome to the Joint Adventures pre-op program at Northwestern Medicine Kishwaukee Hospital and Northwestern Medicine Valley West Hospital. By now you’ve met with an orthopaedic surgeon* and set a date for your joint replacement surgery.

From this point on, the orthopaedic care team will be with you every step of the way. We look forward to giving you excellent care and service.

Two important things to do before your surgery are to read this book and attend a Joint Adventures class. The information in this book, plus much more, will be covered in detail during the class. Knowing what to do before your surgery and knowing what to expect afterwards can help reduce the stress or fear you might have.

Besides reading this book and attending a class, you may also be advised to watch a web-based Emmi® education program about your joint surgery. Your surgeon’s* office can provide you with the web address and access code you’ll need to view the video. Please contact your surgeon’s* office for this information.

Most of the questions you might have today should be answered after reading this book, watching the Emmi video and attending a Joint Adventures class. If you still have questions about your surgery schedule, physician* appointments or medication, please call your physician’s/surgeon’s* office. For other questions, please contact me directly using my cell phone number listed below.

Again, welcome to Kishwaukee Hospital and Valley West Hospital. The orthopaedic care team looks forward to helping make your joint adventure a pleasant one.

TTY for the hearing impaired: Kishwaukee Hospital, 815.766.9736; Valley West Hospital, 815.981.7313

*In the spirit of keeping you well-informed, some of the physician(s) and/or individual(s) identified, are neither agents nor employees of Northwestern Memorial HealthCare or any of its affiliates. They have selected our facilities as places where they want to treat and care for their private patients.
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Getting started

To help you better understand the process of hip replacement, it may be helpful to have an understanding of what a hip is and how it works.

Your hip is a simple ball and socket joint where your thigh bone (femur) joins your pelvis (the acetabulum). The acetabulum is lined with cartilage, which cushions the bones and allows the joint to rotate smoothly with minimal friction.
**Arthritis**

The word “arthritis” means joint inflammation. Arthritis of the hip is a disease that wears away the cartilage of the hip joint. Without an adequate layer of cartilage, the femur and the acetabulum rub on each other, bone on bone. When this happens, the joint becomes pitted and rough. The result is pain, stiffness and instability.

There are many different types of arthritis. One major type is osteoarthritis, which is sometimes called degenerative joint disease. It is most common in people over age 50, but can occur at any age, especially if the joint was damaged earlier in life. Large weight-bearing joints such as the hip and knee are the most common joints affected. People with osteoarthritis often develop bone spurs around the joint that can also limit motion.

**Rheumatoid arthritis** is a chronic disease that can attack many parts of the body, including the joints. In rheumatoid arthritis, the joint fluid contains chemical substances that attack the joint surface and damage it. Swelling, pain and stiffness are usually present even when the joint is not used.

**Hip replacement**

The purpose of hip replacement surgery is to remove the damaged and worn parts of the hip and replace them with artificial parts called prostheses that make the hip strong, stable and flexible again. The prosthesis has the same basic parts as your own hip. In most cases, the implant will consist of two pieces: the **femoral component**, a metal shaft with a ball that is inserted into the thigh bone; and the **acetabular component**, a metal and polyethylene cup that is inserted into the pelvis.
Congratulations.
You’ve taken the first step to regaining your active lifestyle.

However, you need to take a few more to ensure you, your home and your caregiver are fully prepared for your joint replacement surgery.

**During the next few days and weeks, you will need to:**

- Register and attend a pre-operative hip replacement class at the hospital
- Watch educational internet programs as assigned
- Prepare your home for your return
- Complete and return the Care Coordination Form
- Complete lab work or other tests ordered by your physicians
- Select a support person to assist you at home for the first week after surgery

**Pre-operative class**
The class and this book were specially created to help patients and family members better understand what to expect before and after joint replacement surgery.

**Steps to prepare for the pre-operative class**

1. Bring this book with you to class and to the hospital the day of your surgery.

2. Select a family member or close friend who can be your “support person” (coach); your support person will need to attend the pre-operative class with you to learn and understand how to assist you.

3. Register for class 2 to 6 weeks prior to your surgery by calling the Pre-op Nursing line at 815.766.9093. TTY for the hearing impaired: Kishwaukee Hospital, 815.766.9736; Valley West Hospital, 815.981.7313.

Prior to your surgery, we recommend you watch any web-based programs that have been assigned to you.

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Preparing for Surgery
Preparing for surgery

Joint replacement is an elective surgery. Therefore, it is important that your state of health be evaluated thoroughly prior to undergoing the procedure.

**Physician visits and lab tests**

Before surgery, most patients will complete an evaluation that may include a pre-operative physical exam, lab tests, EKG and X-rays. Please be sure to speak with a pre-admission review nurse before you go for testing; anesthesia guidelines may call for additional tests. Your physician* also may discuss temporarily stopping the use of some medications, such as aspirin or other anti-inflammatory medications, about 1 week prior to surgery. These medications tend to make your blood thinner and could cause more bleeding during your surgery.

**Dental care before surgery**

Any invasive dental work, including routine cleanings, cavity filling, extractions, root canals or implant work, can introduce bacteria into the bloodstream. If you are scheduled to have dental work within the 6 weeks prior to your joint replacement surgery, please tell your surgeon's* office staff. Your surgeon* may provide specific instructions or guidelines for you to follow. Consult your surgeon* regarding the length of time to wait after surgery before scheduling any future dental appointments.

**Infection prevention**

Infection is a rare complication of joint replacement surgery. If you have any signs or symptoms of infection prior to surgery, such as an open sore, flu symptoms, a cut, infected teeth or a bladder infection, tell your physician* immediately. Your surgery may need to be delayed until you receive appropriate treatment.

While in the hospital, you will receive antibiotics before and after surgery to reduce your risk of infection.

If you have any signs or symptoms of infection prior to surgery, tell your physician* immediately.

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Your incision needs to be kept clean and dry until it is healed. Your new joint is artificial and does not have your body’s natural protection against infection, so it is possible to develop an infection years later. Bacteria can enter your bloodstream and invade your new joint causing it to become loose and painful. **Call your physician* immediately if you experience signs or symptoms of infection such as fever, chills, pain, redness or drainage.**

Common infections include sore throat, urinary tract infection, deep cuts or an ear infection. Your physician* may prescribe antibiotics.

**Health history**

Once you have a confirmed surgery date, you will need to provide a complete health history. One of our experienced pre-admission nurses will call you to obtain your detailed health history.

After the phone interview, you will be given instructions for the next steps, such as what tests will be performed and where to go for testing. Based on your history, required testing will be scheduled at Kishwaukee Hospital or Valley West Hospital.

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**Pre-op Nursing at Kishwaukee Hospital and Valley West Hospital**

You will meet with a member of our pre-admission nursing team. One of our nurses will draw blood for labs and other testing, if required. The nurse will provide any pre-operative education. The pre-op Nursing visit also provides you the opportunity to ask questions in person and become familiar with the hospital before surgery.
When is my surgery?
We will be able to confirm your surgical time after 2 pm the business day before your scheduled procedure. A member of the Surgical Services staff will call you and tell you when to arrive and also inform you of any day-of-surgery tests that have been ordered.

For patients at Kishwaukee Hospital
If you will not be home, or you miss our call, please contact us at 815.766.7440 after 5 pm, Monday through Friday, to confirm your surgery time. TTY for the hearing impaired 815.766.9736.

For patients at Valley West Hospital
If you will not be home, or you miss our call, please contact us at 815.981.7157 after 5 pm, Monday through Friday, to confirm your surgery time. TTY for the hearing impaired 815.981.7313.

During this call, you will be told:
- Your scheduled surgery time
- What time you need to arrive at the hospital
- What time to stop eating and drinking the night before surgery
- What medication(s) you are to take, if any, the morning of surgery, including insulin and any medications you should bring with you to the hospital

What to bring to the hospital
Although you’ll be in the hospital for a few days, you don’t need to pack much. In fact, we recommend you pack as lightly as possible.

Here is a suggested list of what to bring to the hospital:
- Insurance and Medicare cards
- A list of all your known allergies (medication, food and environmental) and a description of your allergic reactions to each
- Toiletries: toothbrush, toothpaste, comb, brush, deodorant, lotion, contact case or eyeglasses case, denture case, etc.
- Your CPAP mask if you use one at night when you sleep
- List of any special dietary requirements
- Underwear, socks, loose comfortable pants or shorts, button-down shirts, and shoes to wear during therapy (can be the same clothes you wear to the hospital the day of surgery)
- This book and any materials provided to you by your surgeon*

The “Do Not” list:
- Do not wear makeup the day of surgery
- Do not bring cash or personal items such as jewelry or items of great value

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Are you covered?
Healthcare insurance is ever-changing. We suggest you call your insurance provider to discuss your coverage. It is much easier to plan for services and care when you know in advance what your insurance covers and what it doesn’t.

Care Coordination Form
The Care Coordination Form in your pre-op class folder is very important. This helps us know more about you and your post-surgery care preferences. Please take the time to fill it out and mail it at least two weeks prior to your surgery. If your surgery is scheduled within the next 2 weeks, please fax the completed form to 815.766.9761 or email it as an attachment to jennifer.wood1@nm.org.

Northwestern Medicine Home Health & Hospice
If you are discharged to your home, you may need visits from a home health nurse and physical therapist. Northwestern Medicine Home Health & Hospice offers a joint replacement program designed to provide you with excellent care after your joint procedure. These services are available immediately after surgery and continue until you make the transition to outpatient therapy. Northwestern Medicine Home Health cares for more than 150 joint replacement patients each month and is dedicated to maximizing your potential and providing the education required to minimize complications.

Northwestern Medicine Home Health post-surgery care
Northwestern Medicine Home Health is just one of the choices you have for post-discharge care. If you do not have Medicare, we recommend you check with your insurance provider to see which agencies are in your network of providers.

If you would like to speak with a Northwestern Medicine Home Health representative prior to surgery to discuss post-discharge care, call 630.665.7000 or visit homehealth.nm.org

A Northwestern Medicine care coordinator (discharge coordinator) will help make the final arrangements with the home healthcare provider of your choice.

Before you leave the hospital, a Northwestern Medicine Home Health liaison can:

- Meet with you to answer any questions you may have regarding home care.
- Review all pertinent information regarding your medical history, surgical procedure and post-operative care, and report it to your home health team.
- Identify and order needed equipment.
Joint Adventures Preparing for Surgery

After you go home, Northwestern Medicine Home Health can provide the following services:

A registered nurse will assess your overall health, review medications and comfort level, and evaluate the surgical incision.

The nurse and therapist will tailor a home program to meet your specific needs. It will include physical therapy and occupational therapy if needed.

We will conduct a home safety evaluation and make recommendations for making your environment safer during recovery.

Lab work will be performed as ordered to monitor blood-thinning medications. Results will be reported to your physician.*

When it is time for you to start outpatient therapy, we can provide assistance in determining your needs and preferences.

We will communicate regularly with your physician.*

Choosing a coach
As you prepare for surgery, another important thing to decide is who will be your coach or support person once you’re home. This can be a family member or friend. Whomever you choose should plan to attend the Joint Adventures pre-op class with you, watch any assigned web-based programs and help prepare your home. Most important, they need to be with you at least the first week after you return home. You may need assistance with meal preparation and daily activities. Your coach also will encourage and remind you to do your home physical therapy exercises.

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Health and Nutrition
Calcium
Most of the calcium in your body is stored in your bones and teeth. The rest is used in your blood, muscle and fluid between cells.

Benefits of calcium
Regulates muscle contraction, including heartbeat
May help control blood pressure

Recommended Daily Allowance (RDA)
Women age 19-50  1000 mg
Women age 51-70  1200 mg
Anyone over age 70  1200 mg

Tolerable upper limits
Age 19-50  2500 mg
Age 51 and over  2000 mg

Calcium supplements
You may need a calcium supplement if you don’t get enough calcium from the food you eat. Calcium carbonate is the least expensive supplement and it contains the highest amount of calcium per tablet. Calcium carbonate is available under the brand names OS Cal® and Caltrate® or generic calcium carbonate. Calcium also can be found in Tums®, an over-the-counter antacid.

The ingredient label on the back of the product lists the calcium content. Your body only can accept 500 mg of calcium at a time, so do not take more than that in one serving.

Osteoporosis
Osteoporosis is a disorder where bone becomes weak and brittle. People with osteoporosis have an increased risk for broken bones. Osteoporosis may develop if your body doesn’t get enough calcium.

Osteoporosis risk factors
Post-menopausal women
Small-boned women
Fair-skinned women of Northern European origin
Physically inactive individuals
Family history of osteoporosis
Alcohol and caffeine drinkers
Tobacco users

Factors that increase calcium absorption
Lactose  Calcium deficiency
Vitamin D  Pregnancy and lactation

Factors that decrease calcium absorption
Fiber  Vitamin D deficiency
Oxalate  Menopause
Alcohol  Old age

OS Cal® is a registered trademark of Glaxo SmithKline, Caltrate® is a registered trademark of Wyeth, Tums® is a registered trademark of Glaxo SmithKline
<table>
<thead>
<tr>
<th>FOODS RICH IN CALCIUM</th>
<th>CALCIUM (MILLIGRAMS)</th>
<th>PERCENT DAILY VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yogurt, plain, low-fat, 8 ounces</td>
<td>415</td>
<td>42%</td>
</tr>
<tr>
<td>Yogurt, fruit, low-fat, 8 ounces</td>
<td>245-384</td>
<td>25%-38%</td>
</tr>
<tr>
<td>Sardines, canned in oil, with bones, 3 ounces</td>
<td>324</td>
<td>32%</td>
</tr>
<tr>
<td>Cheddar cheese, 1½ ounces, shredded</td>
<td>306</td>
<td>31%</td>
</tr>
<tr>
<td>Milk, non-fat, 8 fluid ounces</td>
<td>302</td>
<td>30%</td>
</tr>
<tr>
<td>Milk, reduced-fat (2% milk fat), no solids, 8 fluid ounces</td>
<td>297</td>
<td>30%</td>
</tr>
<tr>
<td>Milk, whole (3.25% milk fat), 8 fluid ounces</td>
<td>291</td>
<td>29%</td>
</tr>
<tr>
<td>Milk, buttermilk, 8 fluid ounces</td>
<td>285</td>
<td>29%</td>
</tr>
<tr>
<td>Milk, lactose-reduced, 8 fluid ounces</td>
<td>285-302</td>
<td>29-30%</td>
</tr>
<tr>
<td>Mozzarella, part skim, 1½ ounces</td>
<td>275</td>
<td>28%</td>
</tr>
<tr>
<td>Tofu, firm, made with calcium sulfate, ½ cup</td>
<td>204</td>
<td>20%</td>
</tr>
<tr>
<td>Orange juice, calcium-fortified, 6 fluid ounces</td>
<td>200-260</td>
<td>20-26%</td>
</tr>
<tr>
<td>Salmon, pink, canned, solids with bone, 3 ounces</td>
<td>181</td>
<td>18%</td>
</tr>
<tr>
<td>Pudding, chocolate, instant, made with 2% milk, ½ cup</td>
<td>153</td>
<td>15%</td>
</tr>
<tr>
<td>Cottage cheese, 1% milk fat, 1 cup unpacked</td>
<td>138</td>
<td>14%</td>
</tr>
<tr>
<td>Tofu, soft, made with calcium sulfate, ½ cup</td>
<td>138</td>
<td>14%</td>
</tr>
<tr>
<td>Spinach, cooked, ½ cup</td>
<td>120</td>
<td>12%</td>
</tr>
<tr>
<td>Instant breakfast drink, various flavors and brands, powder prepared with water, 8 fluid ounces</td>
<td>105-250</td>
<td>10-25%</td>
</tr>
<tr>
<td>Frozen yogurt, vanilla, soft serve, ½ cup</td>
<td>103</td>
<td>10%</td>
</tr>
<tr>
<td>Ready-to-eat cereal, calcium-fortified, 1 cup</td>
<td>100-1000</td>
<td>10%-100%</td>
</tr>
<tr>
<td>Turnip greens, boiled, ½ cup</td>
<td>99</td>
<td>10%</td>
</tr>
<tr>
<td>Kale, cooked, 1 cup</td>
<td>94</td>
<td>9%</td>
</tr>
<tr>
<td>Kale, raw, 1 cup</td>
<td>90</td>
<td>9%</td>
</tr>
<tr>
<td>Ice cream, vanilla, ½ cup</td>
<td>85</td>
<td>8.5%</td>
</tr>
<tr>
<td>Soy beverage, calcium-fortified, 8 fluid ounces</td>
<td>80-500</td>
<td>8-50%</td>
</tr>
<tr>
<td>Chinese cabbage, raw, 1 cup</td>
<td>74</td>
<td>7%</td>
</tr>
<tr>
<td>Tortilla, corn, ready to bake/fry, 1 medium</td>
<td>42</td>
<td>4%</td>
</tr>
<tr>
<td>Tortilla, flour, ready to bake/fry, one 6-inch diameter</td>
<td>37</td>
<td>4%</td>
</tr>
<tr>
<td>Sour cream, reduced-fat, cultured, 2 tablespoons</td>
<td>32</td>
<td>3%</td>
</tr>
<tr>
<td>Bread, white, 1 ounce</td>
<td>31</td>
<td>3%</td>
</tr>
<tr>
<td>Broccoli, raw, ¼ cup</td>
<td>21</td>
<td>2%</td>
</tr>
<tr>
<td>Bread, whole wheat, 1 slice</td>
<td>20</td>
<td>2%</td>
</tr>
</tbody>
</table>
**Vitamin D**

Vitamin D is a fat-soluble vitamin that is stored in the body’s fatty tissue. It’s also called the sunshine vitamin because the body makes vitamin D after being in sunlight.

**Vitamin D helps**

- Promote calcium absorption
- Form and maintain strong bones
- Maintain the proper phosphorus levels in blood
- Prevent rickets

**Recommended Daily Allowances (RDA)**

<table>
<thead>
<tr>
<th>Age</th>
<th>Vitamin D Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age 19-70</td>
<td>15 mcg or 600 IU</td>
</tr>
<tr>
<td>Over age 70</td>
<td>20 mcg or 800 IU</td>
</tr>
</tbody>
</table>

Tolerable upper limit for any age is 4000 IU

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**Foods Rich in Vitamin D**

<table>
<thead>
<tr>
<th>Food Description</th>
<th>International Units (IU) Per Serving</th>
<th>Percent Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cod liver oil, 1 tablespoon</td>
<td>1,360</td>
<td>340</td>
</tr>
<tr>
<td>Salmon, cooked, 3½ ounces</td>
<td>360</td>
<td>90</td>
</tr>
<tr>
<td>Mackerel, cooked, 3½ ounces</td>
<td>345</td>
<td>90</td>
</tr>
<tr>
<td>Sardines, canned in oil, drained, 1¾ ounces</td>
<td>250</td>
<td>70</td>
</tr>
<tr>
<td>Tuna fish, canned in oil, 3 ounces</td>
<td>200</td>
<td>50</td>
</tr>
<tr>
<td>Milk, non-fat, reduced-fat, and whole, vitamin D fortified, 1 cup</td>
<td>98</td>
<td>25</td>
</tr>
<tr>
<td>Margarine, fortified, 1 tablespoon</td>
<td>60</td>
<td>15</td>
</tr>
<tr>
<td>Pudding, prepared from mix and made with vitamin D fortified milk, ½ cup</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>Ready-to-eat cereals fortified with 10% of the DV of vitamin D, ¾ cup to 1 cup servings (servings vary according to the brand)</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>Egg, 1 whole (vitamin D is found in egg yolk)</td>
<td>20</td>
<td>6</td>
</tr>
<tr>
<td>Liver, beef, cooked, 3½ ounces</td>
<td>15</td>
<td>4</td>
</tr>
<tr>
<td>Swiss cheese, 1 ounce</td>
<td>12</td>
<td>4</td>
</tr>
</tbody>
</table>

**Risk factors for vitamin D deficiency**

- Age 50 and older
- Not enough exposure to sunlight
- Darker skin tones

**Vitamin D supplements**

Vitamin D is needed to help your body absorb calcium. If you are not consuming the RDA for vitamin D, you should talk with your physician about taking a daily supplement.

Vitamin D supplements are available over the counter from your local drug or vitamin store.
Day of Surgery
Day of surgery

We have a few recommendations to help ensure the day of your surgery goes smoothly for you and your family.

When you arrive at Kishwaukee Hospital
Use the main entrance on Route 23. Valet parking is complimentary and recommended the day of surgery. Wheelchairs are available if needed. Valet service is available starting at 5:30 am.

The surgical services check-in and registration area is on the second floor. You and your family/friends will wait there until you are taken to the pre-operative holding area. We ask that only one family member accompanies you to this area.

When you arrive at Valley West Hospital
Use the main entrance on Main Street. Wheelchairs are available if needed.

The surgery registration desk is located near the front entrance. You and your family/friends will wait there until you are taken to the pre-operative holding area. We ask that only one family member accompanies you.

Waiting room
During surgery, your family/friends may wait in the surgical lounge. The patient tracking board will provide up-to-date progress information to your family. Your surgeon* will speak with your family when your surgery is over.

Recovery room
The average length of stay in the recovery room is 2 hours. The medications used in anesthesia may cause blurry vision, a dry mouth, chills, nausea or a sore throat. You may have a drain near your surgical incision. When you are stable, you will be transferred to your room. Once awake, you will be encouraged to breathe deeply and cough. This will help clear out your lungs and prevent pneumonia.

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**Food and fluids**
After surgery, you will be able to have ice chips if you are not sick to your stomach. You can progress to solid food when you and your surgeon* feel you are ready. You will have intravenous (IV) fluids for 1 to 2 days after surgery. You will receive antibiotics, fluids and blood, if needed, through your IV.

**Visitors**
On the day of surgery, we suggest that you keep visitors to a minimum and limit the amount of time they stay. You will feel very drowsy from the medications.

**Privacy**
To protect your privacy after surgery, you will be requested to communicate directly with your family and friends regarding your condition. You will be asked to choose a password to protect your privacy if you are unable to update your family/friends yourself. Please advise family and friends they will need to provide the password to a nurse in order to obtain updates on your condition.

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Your Hospital Stay
Your hospital stay

Post-surgery
Your orthopaedic care team will continue to closely monitor you after your surgery. They will check the color, movement and sensation in your legs. They will orient you to your new environment, where:

A nurse will create a personalized plan of care to meet your individual needs and work with other members of the orthopaedic care team.

A patient care technician (PCT) will assist you with activities of daily living such as bathing, turning in bed and toileting.

Inpatient physical therapy
Physical therapy is one of the most important parts of your recovery. We will plan for you to be out of bed within 6 hours after surgery. You will most likely begin physical therapy the day of your surgery. As an inpatient, you will receive physical therapy twice a day. Your surgeon* and the rehabilitation services staff work together to develop an individualized therapy plan for you. You are encouraged to take pain medication on a regular basis while hospitalized.

During your therapy sessions, you will be instructed in exercises to help restore joint motion and strengthen the surrounding muscles. As you become stronger and progress toward your mobility goal, you will learn and practice how to:

- Properly move and turn in bed
- Get in and out of bed and chairs
- Walk and climb stairs—if appropriate to your home setting

Therapy after your discharge will be based on your health status, abilities and the mobility level you achieved in the hospital. Your focus should be to work toward your optimal functional level with your home health therapist.

Bladder and bowel care
Some people may find it difficult to urinate after surgery because of the anesthesia, pain medications and decreased mobility. If necessary, your surgeon* may request a catheter be inserted to drain your urine.

Constipation can become another problem several days after surgery. Drink a lot of fluids and eat foods that are high in fiber. A stool softener and laxatives may be given to you.

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Incision care
Your incision will be covered by a bandage. Your wound must be kept clean, dry and covered. Wound care will be discussed before discharge.

Respiratory care
Secretions tend to pool in the lungs and can lead to pneumonia. To prevent this, we will teach you to breathe deeply and cough, as well as how to use an incentive spirometer, which is a breathing device. This allows air to fill the tiny air sacs in the bases of your lungs. The deep breathing also helps to break up the mucus so you can “cough it out.”

Circulation
Lack of activity causes the blood to circulate more slowly and pool in the legs. This can lead to the formation of blood clots. To reduce this risk, your surgeon* will order intermittent compression sleeves or foot cuffs for you to wear. Blood thinners also may be prescribed.

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Managing Your Pain
Managing your pain

You are at the center of your healthcare team. For the best possible outcome, we encourage you to be an active participant in your health care.

**Participation takes many forms and includes:**

- Providing information to your team
- Educating yourself about your diagnosis and care plan
- Knowing the medications you are taking
- Expressing your questions and concerns
- Telling your caregivers how you are feeling

**Managing your pain**

We are committed to helping you manage your pain throughout your stay. Pain is experienced by people of all ages and can occur anywhere in your body. Feelings can vary from dull aches to severe sensations. You have the right to have your pain assessed and treated. To help us make you as comfortable as possible, we will regularly ask you to rate your level of pain using a numeric scale. The scale is from 0 to 10, with 0 being no pain and 10 being the worst pain possible.

**Comfort-function goal**

In order to perform your daily activities, you will need to set a goal for managing your pain. This is called a comfort-function goal. Your comfort-function goal should be a pain rating that allows you to continue your important activities.

**To help set your goal, consider:**

- The daily activities you need to do after surgery, such as coughing or breathing deeply, to prevent complications
- The pain rating that will allow you to manage those activities comfortably

Your caregiver will help you with your comfort-function goal and answer questions about the pain rating scale.
Discharge Instructions and Leaving the Hospital
Discharge instructions

Preparation for your discharge actually started the day your surgery was scheduled. Your orthopaedic care team works with your surgeon* and medical physician* to ensure a timely discharge. Part of the discharge process includes the Joint Adventures pre-op you and your family and/or your coach are encouraged to attend. It is very important that everyone involved in your recovery fully understands the discharge expectations.

Discharge instructions for hip replacement

Before being discharged, the following information will be discussed with you and your family or coach.

General Instructions: With all hip replacements, it is best to avoid extreme positions in any direction.

Assistive device
- Walker
- Crutches
- Cane

Weight bearing status for operated leg
- Weight bearing as tolerated
- ___% of weight bearing
- Touchdown weight bearing
- No weight bearing

Keep your appointments

Review teaching tools
- Incision care at home
- Prevention of infection
- DVT sheet

Additional precautions
- Resume driving when surgeon* approves
- Return to work when surgeon* approves

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Incision care at home following joint replacement

Your incision will be closed on the outside by one of the following:

- Staples
- Dermabond
- Steri-Strips®

When you are discharged from the hospital, these will still be in place. You will need to keep the incision clean and dry. If Steri-Strips are present, keep them in place until seen by your physician.* If the ends come loose and curl up, they may be trimmed off, leaving the remaining Steri-Strip in place.

Each day, change the dressing that covers your incision until your first post-op visit with your surgeon.*

Here are a few suggestions to help promote healing and avoid infection:

- Keep your incision clean and dry. You may not shower until directed by your surgeon.*
- You may wash the area gently with soap and water, and pat dry after your first office visit. If you have staples, you may be asked to wait another couple of days after they are removed before showering.
- Do not apply lotion or ointments to your incision unless directed by your surgeon.*

Notify your surgeon* if you notice any of the following:

- Separation of incision line at any point
- Increased temperature greater than 101 degrees, or chills
- Increased redness, swelling or warmth of the skin around the incision
- Increased pain at the incision site
- Red streaks on the skin near the incision site
- Tender bumps or nodules in your armpits or groin
- Foul smell from the incision
- Pus leaking from the incision

Please call your physician* with any questions or concerns.

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Infection prevention
Infection is a possible complication of joint replacement surgery. Therefore, it is very important to take good care of yourself with preventive care, screenings, tests and procedures. If you ever experience signs or symptoms of an infection such as fever, chills, pain, redness and/or drainage from the incision area, call your surgeon.* An infection could start from a sore throat, urinary tract infection, deep cut or even an ear infection.

Some tests, diagnostic procedures and illnesses can place you at a greater risk for developing an infection in your new joint even years after surgery. That’s because bacteria can be introduced into your bloodstream in any number of ways. Once in the bloodstream, the bacteria can travel to your new joint and cause an infection because the artificial joint does not have your body’s natural protection against infection.

Three of the most common healthcare situations you might encounter that can cause an infection are dental care, urological care and colonoscopy.

Dental care
Dental care after surgery can introduce bacteria into your bloodstream through cuts and trauma to the gums and gum lines. In anticipation of this risk, most surgeons* recommend taking a one-time dose of antibiotics just prior to any dental work.

Your surgeon* will have specific instructions and the length of time they need to be followed after joint surgery. Also, make sure your dentist and dental hygienist are aware of your new joint.

Urological care
Invasive procedures involving the urethra, bladder, ureters or kidneys are ways that bacteria can enter your system and contaminate your bloodstream. Needle biopsies of the prostate are included in this risk. Under normal circumstances, the body can usually fight off potential infection associated with these procedures. However, that’s not necessarily true after joint replacement surgery.

Make sure to inform any medical personnel about your artificial joint before they perform an invasive urological procedure. More important, talk to your orthopaedic surgeon* before undergoing any urological procedure. Your surgeon* will provide specific recommendations for you to follow. You also will be instructed how long to follow the recommendations after the procedure.

Colonoscopy
Routine colonoscopy screenings are an important part of preventive care. However, a colonoscopy can introduce bacteria into the bloodstream and eventually your artificial joint. Speak with your surgeon* and gastroenterologist* about the precautions that need to be taken. Make sure you follow your physicians’* recommendations to protect yourself and your new joint.

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Deep vein thrombosis (DVT)
DVT is the formation of a blood clot within a deep vein, commonly the calf or thigh. The blood clot can either partially or completely block the blood flow in the vein.

DVT can result from leg inactivity brought on by:
- Surgery, especially on legs, hips, knees or abdominal area
- Badly broken leg bones or other trauma
- Immobility or being bedridden
- Cancer
- Myocardial infarction (heart attack) or congestive heart failure
- Severe infection
- Pregnancy
- Use of oral contraceptives
- Decreased circulation
- Prior DVTs

Ankle pumps (see exercise on page 49) are important for increasing your blood circulation. These involve moving your ankles up and down and tightening your leg muscles. Your physical therapist will show you how to perform these exercises.

DVT signs and symptoms
Because DVT can produce life-threatening complications, it is important for you to know and be able to recognize DVT symptoms. If you notice any of these symptoms, you should call your primary care physician* immediately.

Any or all of the following can be symptoms of DVT:
- Swelling in the calf or thigh area
- Pain in the calf area or behind the knee
- Increased pain with standing or walking
- Warmth/redness/tenderness in the affected area
- Low-grade fever

DVT also can occur without any of the above symptoms.

Pulmonary embolism (PE)
The most common and serious complication of DVT is a pulmonary embolism (PE). A PE occurs when a blood clot breaks free from a vein wall and travels to the lung where it blocks an artery. A PE is life-threatening and needs immediate medical attention.

Signs and symptoms of a PE include:
- Sudden onset of chest pain
- Sudden unexplained cough or coughing up blood
- Shortness of breath
- Lightheadedness, dizziness or cold sweats
- Feelings of restlessness, anxiety or rapid heartbeat
- Sense of impending doom

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Leaving the hospital

**Discharged**
Once your physicians* and orthopaedic care team determine you are ready to be discharged from the hospital, you will embark on your next level of rehabilitation. You and your physician* will discuss your discharge plan. Your post-discharge plan will be designed to meet your needs.

We strongly recommend you have someone stay with you for at least 1 week after your discharge to help ensure a safer recovery.

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Safety Precautions
Safety precautions

Your orthopaedic care team will teach you safety precautions. Your incision site and body need time to heal and adjust to the new joint. Your surgeon* will instruct you on when you can resume normal activities.

Before leaving the hospital, you will practice walking, transferring from your bed and a chair, and dressing yourself. If your home has stairs, you also will practice climbing stairs.

These basic tasks require you to use safety precautions to prevent injury to yourself and your new joint.

Transfers in and out of bed (Illustration A)

Back up to the bed until you feel the back of your knees touching it.
Place your operated leg out in front of you.
Reach for the bed with one arm and keep the other arm on the walker.
Slowly lower yourself onto the bed.
Scoot back onto the bed as much as possible.
Lift one leg at a time onto the bed until both legs are supported.
Continue to move legs to the center of the bed.
Recline back.
To get out of bed, reverse the steps.

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Transfers into and out of a chair

Into a chair:

Back up to the chair until you feel the back of your knees touching it.

Place your operated leg out in front of you. If using crutches, move both crutches to one arm.

Reach for the armrests and slowly lower yourself onto the chair. Continue to keep the operated leg straight.

Scoot to the back of the chair.

Out of a chair:

Scoot forward to the edge of the chair so both feet are on the floor.

Place your operated leg out in front of you and keep it there.

Bend your knee and hip on the non-operated leg and try to keep most of your weight on this leg.

Using your hands on the armrests, push yourself with your arms and non-operated leg to stand.

Do not use a walker to pull yourself up; that may cause the walker to tip and could result in a fall.

If using crutches, move crutches to one arm and push to stand with one arm on crutches and one arm on armrest.
**Transfers in and out of a car**

**Car transfers (Illustrations B and C):**

Have the driver open the passenger-side front door for you and make sure the front seat is as far back as possible. You also can have the backrest reclined to maximize your space.

Back up to the car using your walker until the backs of your knees touch the edge of the car.

Place your operated leg out in front of you and keep it straight throughout the transfer.

Place one hand on the walker and the other hand on the frame of the vehicle.

Slowly lower yourself onto the edge of the seat.

Scoot as far back as possible on the seat.

Turn towards the dashboard (making sure not to bend torso/head forward) as you bring one leg into the car at a time.

Reposition the seat to allow for proper seatbelt function and comfort.

Have the driver close the door for you.

To get out of the car, reverse the steps.

**Recommendations:**

Use a plastic trash bag on car seats for easier scooting and sliding.

Do not drive until your surgeon* gives you permission.

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Stairs

Going up stairs (Illustration D):

Use crutches or cane in one hand. With the other hand, hold onto the railing. Support your weight evenly, and lift non-operated leg onto the step.

Bring your operated leg up onto step, and then bring up cane or crutches.

If no railing, use crutches in both arms.

Going down stairs (Illustration E):

Use crutches or cane in one hand. With the other hand, hold onto the railing.

Lower crutches or cane onto step below.

Support your weight evenly, and bring down operated leg.

Lower non-operated leg.

If no railing, use crutches in both arms.
Dressing and undressing

Slacks and underwear:

Sit on the side of the bed or in an armchair. Your occupational therapist will determine if you need adaptive/assistive devices to dress and undress.

To put on underwear and slacks, use reacher and secure the waist of the underwear or slacks with the hook. Lower clothing to the floor with the reacher and slip slack leg over your operated leg first (see illustration F). Then do the same for your non-operated leg. (Perform this process first with underwear and then repeat with slacks before standing.)

Do not lean or bend forward to reach your slacks or underwear.

Pull both the underwear and slacks up over your knees. Stand with walker in front of you, and pull up both the slacks and underwear.

When undressing, take the slacks and underwear off your non-operated leg first, reversing the steps above. Use reacher to push off slacks and underwear.

Socks:

If your occupational therapist ordered a sock aid, place your sock over the end of the aid, opposite from the pulls. While holding the pulls, lower the sock and aid to the floor. Place your foot into the sock and pull it toward you until the sock is on your foot and the aid is free (see illustration G).

To take socks or stockings off, use the end of the long-handled shoehorn or the post on the reacher to push the sock down the calf, over the heel by hooking the back of the heel, and then off the foot (see illustration H).

Shoes:

If you are unable to bend over to put on your shoes, it is advisable to wear slip-on shoes or use elastic shoelaces.

Use the long-handled shoehorn to put on or take off your shoes. Do not use opposite foot to take off shoe.

Position your shoe for your operated leg in front of the foot or to the outside of the foot only.

Hint: It may be easier to put shoe on operated leg when standing.
Toileting

Toilet transfer (Illustrations I and J):

Use a toilet, bedside commode or other equipment recommended by your occupational therapist.

Back up to the toilet until you feel the back of your knees touching it. Reach for the armrests or sink, and slowly lower yourself onto the toilet, keeping your operated leg out in front.

Bend your knee and hip on the non-operated side as you lower yourself onto the seat, putting most of your weight on the unaffected (non-surgical) side. Remember to keep your operated leg straight out. You may want to place a pillow behind you and lean back (slightly).

Reverse the procedure for getting up, using one hand on the armrest or sink to push up and one hand on the walker. Make sure you have your balance before grabbing the walker.
Bathing and showering

If your home therapist recommends tub transfer using a chair or transfer bench:

If your tub is not wide enough for a shower chair, a tub transfer bench is recommended.

Back up to the tub until you feel the back of your knees touching the tub or transfer bench.

Reach back for the armrests and slowly lower yourself onto the transfer bench, keeping your operated leg out in front.

Sit down on the edge of the bench, continuing to keep the operated leg straight.

Scoot straight back as far as possible on chair or transfer bench.

Lift legs over the lip of the tub one leg at a time. Turn to face the faucet.

To transfer out of the tub, reverse the procedure. Lift legs out of the tub one at a time, scoot forward and then, using one hand on the armrest and one on the walker, push yourself to stand.

Walk-in shower transfer:

Back up to the shower using your assistive device (Illustration K).

Bend your knee and hip on the non-operated side as you lower yourself onto the shower chair seat, putting most of your weight on the unaffected (non-surgical) side (Illustration L).

Lift legs over lip of shower stall and turn to face shower head (Illustration M).

To transfer out of the shower, reverse the procedure. Turn toward your walker and lift legs over the shower stall one at a time. Grab the walker, place your weight on your non-operated leg and raise yourself until standing.

Shower only after your surgeon* gives you permission (typically after your staples are removed).

Recommendations:

Always have a family member present for safety.

Use a hand-held shower hose.

Use a long-handled bath sponge.

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Home precautions
To reduce the risk of falls or injury following surgery, it is important for you to make your home as safe as possible. This is fairly simple to do before your surgery. Most of the suggested modifications require no extra equipment or expense.

The following are home precautions you should follow:

- Check hallways, stairs or traffic areas of your home for potential tripping hazards such as loose carpeting. Remove any clutter on the stairs.
- Check the location of extension cords or phone cords to make sure they are not in a pathway.
- Remove furniture that may cause a fall such as a rocking chair, glider, coffee table or ottoman.
- The bathroom is the most accident-prone room in your home. Use non-slip strips on the bottom of the tub or shower.
- Remove all throw rugs around the house and in the bathroom.
- Install grab bars by the toilet, and in the shower or tub area. Soap dishes, towel bars or doorknobs are not acceptable substitutes for grab bars.
- Place frequently used kitchen items in easily accessible places, such as on the countertop or tables. Items should be at or just below waist level, or just at shoulder height.
- Do not use a “reacher” for overhead items.
- If possible, have your bed accessible from both sides.
- Do not use furniture that has casters.
- Place portable phones in rooms where you will spend most of your time and in your bedroom.
- Use nightlights in heavily traveled hallways and in bathrooms.

Your home care therapist will make recommendations for any other items you might need during the first visit following your discharge.
Adaptive equipment

3 in 1 commode

Toilet safety frame

Elastic laces

Raised toilet seat

Shower chair

Spiro elastic laces

Raised toilet seat with arm and clamp

Hip kit
Outpatient Physical Therapy
Outpatient physical therapy

Physical therapy is the most important part of your joint recovery. Your surgeon can implant a new joint, but it is your job to do the required physical therapy exercises to ensure your joint returns to an optimum functioning level. We recommend you work with a physical therapist specially trained in orthopaedics and joint replacement.

The physical therapist will instruct you on the correct exercises, as well as how and when to increase your exercise time and repetitions.

In the hospital immediately after your surgery, your physical therapist will:

- Work with you to get you up and walking — in most cases, the same day of your surgery
- Work with you twice a day until you are discharged
- Instruct you on the correct exercises
- Explain how and when to increase your exercise time and repetitions

After discharge, your therapy can continue at your home with another member of the orthopaedic care team — a Northwestern Medicine Home Health physical therapist.

Northwestern Medicine outpatient physical therapy

You will continue physical therapy at home until your therapist and surgeon decide you can progress to outpatient physical therapy. At this point, you have an important decision to make on where to continue your physical therapy. You can continue with yet another member of our orthopaedic care team — a Northwestern Medicine outpatient physical therapist.

Through Northwestern Medicine, you can choose from 45 outpatient physical therapy locations in Greater DeKalb County and the western suburbs. Our licensed physical therapists will work together and communicate with your physician during your rehabilitation process. They also will develop a program to meet your individual needs and goals.

Your one-on-one therapy sessions can be with the same therapist during your entire outpatient treatment. This helps to ensure continuity and the ability to measure and accurately report your progress to your physician. Plus your medical records are accessible 24/7 to both your physician and therapist.

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When deciding where you will go for outpatient therapy, consider the following:

- Is the therapist licensed or a trainer/instructor?
- Will you be working one-on-one with that therapist during your entire therapy session?
- Will you have therapy with the same individual throughout your rehabilitation?
- How will the therapist communicate your progress to your surgeon*?
- Will the therapist have access to your medical records?

Ask the following questions about the facility:

- What type of accreditation does this outpatient facility have?
- How long has it been treating patients?
- What is the most common type of treatment performed at this facility?
- How much experience does it have with joint replacements?
- How many joint replacement patients has it treated?
- Does it have evening and weekend appointment times?
- Is this facility in your insurance network?

Pain management during physical therapy

It is important to have adequate pain management to reach your optimal functioning level, but still be able to exercise. If you haven’t had any pain medication within 3 hours of your scheduled physical therapy session, we suggest you take some at least 30 minutes before you begin exercising.

With time, you should be able to decrease the amount of pain medication required. If your pain level and need for pain medication don’t decrease after several weeks, discuss the situation with your physical therapist.
Exercise is very important following your hip replacement surgery.

The exercises on the next few pages are recommended before and after surgery. Your physical therapist also may give you additional exercises not listed in this book. Do only those exercises approved by your physical therapist.

Begin with 10 repetitions of each exercise at least 2 times a day. As you get stronger, you can increase the number of repetitions and duration. Remember, the exercises should be done on a firm surface. Don’t hold your breath while doing these exercises. It also is important to have adequate pain management to reach your optimal functional level. Therefore, we recommend you take your pain medication 30 minutes before your therapy session if you haven’t had any in the past three hours.

Remember:

Exercises should be done on a firm surface.

Don’t hold your breath while doing these exercises.

Take your pain medication 30 minutes before your therapy session if you haven’t had any in the past 3 hours. Pain management is important in order for you to maximize your therapy.
ANKLE PUMPS

With your legs straight, gently flex and extend your ankles, moving through full range of motion. Repeat 10 times for each leg.

QUAD SET

With your legs straight, tighten the TOP of your thigh to make the knee as straight as possible. Hold the contraction and count to five. Relax. Don’t forget to breathe. Repeat 10 times for each leg.
HAMSTRING SET

Lie on your back with your operated leg slightly bent; push your heel into the bed. Hold for a count of 5. Relax. Repeat 10 times.

GLUTEAL SET

With your legs straight, squeeze your buttocks together and count to 5. Relax. Repeat 10 times.

SHORT ARC QUAD

With a rolled up towel or pillow under your knee, tighten your thigh to lift your heel off the bed and straighten your knee. Hold for a count of 5. Don't forget to breathe. Slowly lower your leg. Repeat 10 times for each leg.
**HEEL SLIDES**

Lie on your back with your legs straight. Bend your knee by sliding your heel toward your buttocks as far as possible. Hold and count to 5. Slide your heel and leg back to a straight position. Relax. Repeat 10 times for each leg.

**HIP ABDUCTION**

Lie on your back with your legs straight. Slowly slide your leg out to the side and then back in. Do not slide your leg too far inward.
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