Shoulder Replacement Surgery

In What Activities May I Participate After I Recover?

After undergoing shoulder replacement surgery, it is important to have realistic expectations about the types of activities you may do. Minimal stretching of your new shoulder is recommended throughout your lifetime to maintain your full range of motion.

Driving

You may give you permission to drive within four weeks after the surgery. If your surgery was on the right side, driving permission may not be given until a month or six weeks following the surgery.

Work Activities

Determining the date you return to work will depend both on your surgeon and the type of work you do. Some individuals may require modifications of their job, while others may easily return to their previous activities. Lifting and pulling job-related activities might be delayed or discouraged. Those engaged in heavy manual labor may have to discuss the possibility of vocational counseling with their surgeon.

Leisure and Sport Activities

There are different risks associated with certain types of leisure and sport activities. Some activities may lead to damage of your artificial joint over time due to wear and tear of the joint. More vigorous the activities will increase the risk of damaging the implant. Increased the wear and tear on the implant will increase the risk of loosening of the implant.

Three major categories of activities should be avoided. These include:

- Activities causing high impact stresses on the implant
- Activities with potentially high risk of injury
- Activities that may result in falling or getting tangled with opponents risking dislocation of the joint itself or a fracture of the bone around the implant.

These types of activities include sport activities requiring a vigorous throwing motion of the arm, chopping wood, hammering, heavy lifting or pushing activities, martial arts, and rough contact sports (such as, football, soccer, lacrosse, basketball, baseball, handball, and volleyball). These activities should be avoided.

Weight lifting activities may be limited throughout your life. During your post-operative period you may be able to build up to lifting weights weighing less than five pounds. Check with your surgeon and physical therapist about lifting any heavier weights.

Lower stress activities such as hiking, walking, biking, golfing, and swimming are excellent forms of exercise for individuals with a shoulder replacement. Some patients also return to playing tennis with a shoulder replacement.

As with any medical treatment, individual results may vary. Only an orthopaedic surgeon can determine whether an orthopaedic implant is an appropriate course of treatment. There are potential risks, and recovery takes time. The performance of the new joint depends on weight, activity level, age and other factors. These need to be discussed with your doctor.

29 Haynes Street, Manchester, CT 06040 • 1250 Silas Deane Highway, Suite 107, Wethersfield, CT 06109 • 860-649-CCOS (2267) • Fax: 860-288-2107
Shoulder Replacement Surgery

Rehabilitation Timeline after Shoulder Replacement Surgery

Now that your shoulder replacement surgery is complete, you may have many questions. What can you expect during your recovery period? How long will your recovery take? Will you be in any pain? When will you be able to use your arm? When will you be able to go back to work? Find some answers below.

After Surgery and in the Hospital

When surgery is completed, your surgeon will update your family and friends on your condition and progress. You will remain in the recovery room for at least an hour or until the anesthesia has worn off and your blood pressure and pulse are stable. If you have pain, the nurses will give you medication.

Once out of surgery, your surgeon will decide whether your arm will be in a shoulder splint or shoulder immobilizer, in order to protect and position your shoulder. However, this immobility won't keep you from starting the physical therapy regimen.

Exercises begin on the day after surgery with emphasis on the shoulder, wrist, and hand. You will also be encouraged to use your arm for some simple activities like feeding yourself, brushing your teeth, and shaving. With surgeon approval, strengthening exercises will begin at about four weeks. This delay is necessary to allow the tissues to heal.

When You Are Discharged from the Hospital

You can expect to be released from the hospital one to two days after surgery. Before you are released, your surgeon and physical therapist will talk with you about the importance of limiting any sudden or stressful movements to the arm for several weeks or longer. Activities that involve pushing, pulling, and lifting will not be possible until you are given permission from your surgeon.

Your First Day at Home

You may need help with your daily activities, so it is a good idea to have family and friends prepared to help you. With their help, you will need to do the exercises you learned while in the hospital, four to six times daily. These exercises gradually increase the movement in your joint, so it is important to do them as scheduled.

Don't forget to wear the sling every night for at least the first month after surgery, and never use your arm to push yourself up in bed or from a chair. The added weight on your shoulder may cause you to re-injure the joint.

How to Cope in the First Week

You are encouraged to return to your normal eating and sleeping patterns as soon as possible. It is important for you to be active in order to control your weight and muscle tone. But remember to increase your activity level or exercises only as your surgeon has directed.

You might be able to return to work within several days. Consult with your doctor, as this differs from patient to patient. However, if your job requires heavy lifting or climbing, there may be a delay for several months.

Until you see your surgeon for your first follow-up visit, make certain that your wound stays dry and is not draining. If you notice any drainage or a foul odor from your incision, please contact your surgeon. Also, if your temperature goes above 100.4 degrees, call your surgeon.
What You Can Expect in the First Month

Your stitches will be removed seven to 10 days after surgery, but remember it is quite common to still experience pain surrounding the surgical site.

You will begin a formal physical therapy program 10 to 14 days after surgery. Four to six weeks after surgery, you will start a progressive strengthening program. Physical therapy is a deliberate process of not only strengthening your shoulder but also altering how you use your arm. It may be many months before your desired results are achieved, so do not get discouraged.

Your shoulder will generally continue to improve steadily up to five to six months after surgery. After that point further improvement is very slow; although it has been shown that even after a year or more, activity can increase as muscle strength continues to improve.

When can you get behind the wheel of your car? Driving should wait until you can perform the necessary functions comfortably and confidently. This may take up to one month or longer if the surgery has been performed on the right shoulder because of the increased demands for shifting gears. But only your surgeon can give you the proper advice in this area.

Six Weeks after Surgery and Beyond

Keep in mind that you will need to be seen by your surgeon six weeks, five months, and 12 months after your surgery. You may also see your surgeon once a year after the first year, even if you are not having any problems.

Because each person heals differently, there are different recovery timelines. But in general, an average recovery period typically lasts three to six months. You should not play contact sports or do heavy lifting for at least six months. You don't want to find yourself back in surgery.

Postoperative Total Shoulder

Physical Therapy Postoperative In-Patient Total Shoulder Replacement Examination and Interventions/Treatment

Shoulder replacement surgery can be performed using a variety of techniques. Therefore, postoperative instructions will depend on your surgeon and the type of technique performed.

Examination

During the first visit with the physical therapist following your surgery, he or she will perform a thorough examination to gather as much information as possible about the history of your condition. Quick screening examinations of your heart rate, blood pressure, breathing rate, skin integrity, range of motion of other joints of the body, functional strength of other areas of the body, and your overall ability to move may be done during this phase.

Your physical therapist may assess the following:

- How your operated arm is moving
- The presence of pain
- The allowable range of motion in your new shoulder
- How you are able to move around
- Your safety when getting up
- How well you remember and are practicing your shoulder precautions and your breathing
Interventions/Treatment Plan

Initially ice may be used to help reduce pain and swelling. Ice makes the blood vessels become more narrow (vasoconstriction), which helps control inflammation. It may be used throughout the day for up to eight to ten days postoperatively.

Precautions

Your therapist will discuss the shoulder precautions to follow after surgery.

- Keep sling or immobilizer splint on until instructed otherwise
- Minimize or prevent swelling
  - Elevate the arm
  - Perform exercises to the other joints of the arm
- Do not do any stressful or sudden movements of the arm
- Do not lift, push, or pull until instructed otherwise (for example, do not push yourself up in bed or push up from a chair with your replacement shoulder arm)

Exercises

In some instances, exercises for your shoulder will begin in the recovery room with gentle passive movements of the shoulder. Exercises should be done only at the direction of your physical therapist. The choice of exercises used after surgery will depend upon the type of surgical technique used, the type of replacement joint, how unstable the shoulder was before surgery, and whether any muscle structures were repaired during the surgical process. Exercises are used to help control pain and help with movement in the shoulder and surrounding joints. Your arm may also be placed in a machine that allows continuous passive movements of your shoulder. Some of the following exercises may be incorporated in your treatment plan:

Gentle forward movement and outward rotation of your new shoulder will be done initially with the help of your therapist. You will be instructed in the performance of these movements with the help of a stick so that your other arm assists the performance of these movements of your new shoulder.

Pendulum exercises may start in the hospital. These are a series of exercises in which you stand with your hips and knees bent, your surgical side leg is placed further back than the other leg, you lean over from the waist, and let your arm with the replacement shoulder hang down. You then do a series of four movements by moving your body, which in turn moves your shoulder. These four motions include movements of your body that produce clockwise circles of your arm, counterclockwise circles, back and forth movements of your arm along your side, and side to side movements of your arm across the front of your body.

Pulley exercises may also start in the hospital, although some surgeons wait a couple of weeks before beginning these exercises. They require a simple over the door pulley device. Sitting in a chair, you gently pull your replacement shoulder upward with the non-surgical arm doing the work.

Arm exercises may also be included in your postoperative physical therapy program to assure you maintain strength and flexibility in all of the other joints of your arm (elbow, wrist, and hand). The exercises to maintain strength are usually gentle isometric contractions, or setting contractions, of the muscles around the elbow and forearm. Putty may be given for grip strengthening exercises with your hand. Exercises to maintain flexibility in the other joints will include active movements through the full range of motion of the hand, wrist, and elbow.

Breathing exercises are incorporated into your post-operative program to help prevent pneumonia from developing. Deep breathing is the simplest form of breathing exercise. In addition, you may be given an incentive spirometer, a device requiring you to take in as deep a breath as you possibly can, hold it for a few seconds, and then blow it out. An
indicator on the incentive spirometer will enable you to track your deep breathing progress as you attempt to take in deeper and deeper breaths each time you use the device.

**Other exercises** may be included in your post-operative program to keep your trunk and leg muscles strong. Your therapist will instruct you in the type and number of exercises, the amount each exercise is to be done, and how often they should be done.

**Position Changes**

You will be given instructions and assistance on how to move and change positions and how to elevate the arm to help prevent or minimize swelling. The time when you may sleep on your new sh

If there will be any changes to these precautions, your surgeon and physical therapist will instruct you appropriately.

**Postoperative Total Shoulder**

**Physical Therapy Postoperative Out-Patient Shoulder Replacement Interventions/Treatment**

Once your physical therapist has completed the examination, an intervention/treatment plan will be established. This plan will list the goals for getting you back to your daily activities. Finally, it will include a prognosis on how much time and how many visits your therapist recommends.

You should continue following the precautions taught in the hospital to protect your shoulder replacement. You may also be instructed in other activities to protect your shoulder during the first six weeks after the surgery. Depending on your surgeon, you may need to wear the sling anywhere from a couple of days post-operatively to several weeks. Some surgeons recommend using the sling only at night for approximately one month after surgery. The precautions may include:

- Keep sling or immobilizer splint on until instructed otherwise
- Minimize or prevent swelling
  - Elevate the arm
  - Perform exercises to the other joints of the arm
- Avoid any stressful or sudden movements of the arm
- Do not lift, push, or pull until instructed otherwise (for example, do not push yourself up in bed or push up from a chair with the new shoulder arm)

Your therapist may choose from one or more of the following interventions to facilitate your recuperative process.

**Exercises**

Exercises will be performed four to six times daily after you have been discharged from the hospital for a period of time prescribed by the physical therapist. Exercises are prescribed by the physical therapist for many different reasons.

- To decrease swelling
- To improve your flexibility
- To increase your strength
- To enhance your endurance
- To maintain the motion and strength of your elbow, wrist, and hand
- To make the performance of your daily activities easier

**Decreasing Swelling:** To decrease swelling during the early out-patient period, ice will continue to be used especially after exercise sessions for up to 3 months postoperatively.
**Improving Flexibility:** To improve the flexibility of your shoulder, the physical therapist may have you continue the exercises started in the hospital. These may include the pendulum exercises, the pulley exercises, and the stick exercises. Over the course of a couple of weeks you will increase your active upward movement (flexion) of your shoulder to 90 degrees. After approximately five weeks, you will continue to increase the range of motion in outward (external) rotation, forward movement (flexion), and backward movement (extension) of your shoulder. You may also begin a wall climbing exercise to increase your motion.

**Strengthening Exercises:** To increase strength of the muscles around the shoulder, exercises will be performed in accordance with the type of surgery done. Within one week of the surgery, you may be able to actively lift the shoulder in a forward direction. The beginning of strengthening exercises for your new shoulder will vary in accordance with your surgeon and the surgical procedure. Some will begin strengthening as early as two weeks after surgery, and some will wait until four to six weeks after surgery.

Generally the first strengthening exercises will be isometric (static, no movement contractions) exercises. They will focus on muscles that lift the arm forward, push the arm backward, raise the arm out to the side and bring it back to the body, and turn the shoulder inward and outward.

As the recovery process progresses, elastic band or tubing resistance exercises may be used to strengthen the muscles around the shoulder. Around three months post-operatively, you may be instructed to begin using light weights (less than five pounds) for shoulder strengthening. The therapist will guide you in the weights, which may be used. For example, only one-pound weights may be used initially, then gradually increasing to two-pound weights, and so on.

If you have a pool available and are cleared by your surgeon for immersion in water, aquatic exercises may be incorporated into your overall program.

Exercises should never be "overdone." If you find your shoulder is swelling late in the day, it may be a sign you are doing too much too quickly. Pain should also be avoided. Pain is an indicator something is or was too much. A small amount of muscle discomfort with increasing exercise may occur, but it should be "reasonable" discomfort, not pain.

**Endurance Exercises:** Endurance exercises will also be progressed so your muscles may function effectively over longer periods of time. These may include walking, stationary recumbent bicycle, and any other activity maintaining your shoulder precautions at this time.

**Maintaining Elbow, Wrist, and Hand Motion and Strength:** To maintain motion and strength in your joints surrounding the shoulder, you will continue the activities started in the hospital. Your therapist may apply gentle resistance for the muscles around the elbow, wrist, and hand being sure to avoid stress on the shoulder. You may also use light weights (less than five pounds) for your shoulder after five weeks post-operatively.

**Functional Activities**

Exercises may be included in your program simulating day-to-day activities like getting in and out of a chair and climbing stairs with your arm. You will review all of your self-care and home management activities, as well as all activities related to your job and leisure life. This review is done to ensure you are able to do your daily activities safely and effectively while maintaining any appropriate precautions. You will continue to use your arm as normal as possible while eating, dressing, reading, and doing any other easy activities with the arm in front of the body. Usually within two to three weeks after the surgery, patients are functionally using their new shoulder more than they used their shoulder prior to surgery.
Hot and Cold Therapy

Ice may be used if there is pain or swelling. Heat may also be used for pain management and for relaxation. Special care must be taken to make sure your skin does not overheat and burn.

Home Program

As your condition continually improves, you will be given advanced exercises to do at home, in a pool, or in a gym setting. You may be scheduled to recheck with your physical therapist at regular intervals to make sure you are doing these exercises routinely and safely. During these rechecks, you may be given additional exercises to work on over the next few weeks. Eventually, you will be progressed to a final home program. Once you have been released to full activity, you may be instructed to follow up with a few visits over the next few months to make sure you reach your peak level of performance. Gains in your range of motion and strength may continue for as long as six to twelve or more months after your replacement surgery. Minimal stretching of your new shoulder is recommended throughout your lifetime to maintain your full range of motion.