

INSTRUCTIONS FOR SURGERY

In order to make your admission and hospital stay smooth and more pleasant, please comply with the
following instructions:
☐ If your surgery is on MONDAY , please report to:
NYU Langone Orthopedic Hospital
301 East 17 th Street
New York, NY 10003
If indicated by your physician, schedule your pre-surgical testing, located at
303 2 nd Avenue, 1 st Floor Suite 16
New York, NY 10003
☐ If your surgery is on FRIDAY , please report to:
NYU Langone Outpatient Surgery Center
339 East 38th Street
New York, NY 10016
If indicated by your physician, please call 212-263-5985 to schedule your pre-surgical testing, located at
240 East 38 th St.
New York, NY 10016
Mezzanine Level
*One business day prior to your surgery, hospital staff will contact you to finalize your surgery time.
A. Bring jogging/warm-up pants, shorts/skirt if having knee surgery.
B. Bring a shirt/blouse that buttons open in front instead of a pullover if having shoulder/elbow surgery.
C. If you own crutches, bring them with you, if having knee, ankle or hip surgery.
D. Bring all medications or a list of current medications you are taking with you. Also bring a list of any allergies.

E. Blood pressure medication should be taken as usual with a sip of water the morning of surgery. DO NOT

F. **DO NOT** take oral diabetes medications (pills) the night before or the day of surgery. If you are on insulin, **DO NOT** use insulin the morning of surgery unless you are a "problem diabetic" in which case you need to

take a diuretic or fluid pill. Seizure medications may be taken before surgery.

consult your physician regarding the proper insulin dose for you to use prior to surgery.





- G. Please DO NOT wear makeup or nail polish the day of surgery. You will need to remove contact lens (including extended wear), denture, or bridges prior to surgery. Please bring your own containers for storage.
- H. Leave all jewelry and valuables at home. The hospital will not take responsibility for lost or missing items.
- I. You need to report any skin irritation, fever, cold, etc., to Dr. Jazrawi.
- J. You will need to bring your insurance card/information with you.
- K. DO NOT eat, drink (including water), chew gum, candy, smoke cigarettes, cigars, use smokeless tobacco, etc., after midnight the night before surgery or the morning of your surgery. The only exception is a sip of water to take necessary medications the morning of surgery.
- L. You must arrange someone to drive you home when ready to leave the hospital. You will not be allowed to drive yourself home after surgery. We can assist you if you need transportation to the airport or hotel, however, you need to let us know in advance (if possible) so we can make the arrangement.
- M. NOTE: DO NOT take any aspirin, aspirin products, anti-inflammatories, Coumadin or Plavix at least 5 days prior to surgery. You are allowed to take Celebrex up to your day of surgery. If your medical doctor or cardiologist has you on any of the above medications. Please check with him/her before discontinuing the medication. You may also take Tylenol or Extra-Strength Tylenol if needed.

Nonsteroidal Anti-Inflammatory (Arthritis) Medications:

Some of the most common names for frequently used NSAID's include: Motrin, Indocin, Nalfon, Naprosyn, Naprelan, Arthrotec, Tolectin, Feledene, Voltaren, Clinoril, Dolobid, Lodine, Relafen, Daypro, Advil, Aleve, Ibuprofen.

Your first follow up appointment is usually scheduled for approximately 2 weeks after your surgery at the 333 East 38th street office. The date and time of your follow-up is _______.

If you cannot make this appointment or need to change the time, please contact the office.

If you have any questions regarding your surgery, please contact the office at 646-501-7223 option 4, option 2 or via the internet at www.newyorkortho.com



Home Supplies For Your Surgery Laith M Jazrawi, MD

Open Surgery

- **A. Open knee surgery** (ACL reconstructions, ALL (Anterolateral ligament) reconstructions, Autologous Chondrocyte Implantation, PCL reconstructions, High tibial osteotomy, Distal femoral osteotomy, Posterolateral corner reconstruction, MCL reconstruction, OATS (osteochondral autograft), Osteochondral allograft,)
 - **a.** You will need 4x4 (or similar size) waterproof bandages for fourteen days. **Bandage changes for open knee surgery done post-op day #3.**
- **B.** Open shoulder surgery, (Biceps Tenodeis, Latarjet, Open capsulorrhaphy, Glenoid reconstruction using Distal tibial allograft):
 - **a.** You will need 4x4 (or similar size) waterproof bandages for fourteen days. Also, a box of **Bandage** changes for open shoulder surgery are done post-op day #3.
- **C. Open Ankle Surgery** (Achilles Tendon Repair, Os Trigonum Excision, Ankle OCD, Modified Brostrom-Gould Procedure, Peroneus Longus/Brevis Repair)- You do not have to worry about dressing changes as your leg will be in splint/cast for the first two weeks
- D. Open Elbow surgery (Distal Biceps Repair, LCL Reconstruction, Radial Head or Capitellum ORIF, Radial Head Replacement/Resection, Triceps Repair, UCL Reconstruction Tommy John Surgery)- You do not have to worry about dressing changes as your arm will be in splint/cast for the first two weeks. For Tennis Elbow surgery (lateral epicondylitis) and Golfer's Elbow Surgery (medial epicondylitis), dressing changes are are started on post-op day #3. You will need 4x4 (or similar size) waterproof bandages for fourteen days.
- E. Hamstring repair You will have a special dressing placed on at the time of surgery that will be kept on for the first 2 weeks after surgery. You will then need 4x4 (or similar size) Tegaderm or Telfa waterproof dressings. Also, a box of 4" by 4" gauze sponges if there is bleeding at the incision site.

Arthroscopic Surgery

- **A.** For Arthroscopic shoulder, elbow, knee, or ankle surgery:
 - a. Regular adhesive bandages ("Band-aids") can be used for arthroscopic portals x 2 weeks.
 - b. If biceps tenodesis was performed, use 4x4 (or similar size) waterproof bandages on wounds.
 - c. In general, dressing changes for arthroscopy are done on post operative day 3



Post-Operative Medication Administration

Knee Arthroscopy

- Pain- Motrin 800mg. 1 tab three times daily, as needed
- Adjunctive pain: Percocet (Oxycodone/Acetaminophen) 5/325 (5 tabs); One tab every 6 hours as needed for adjunctive pain*

Meniscal Repair, Meniscal Root Repair

- Pain- Percocet (Oxycodone/Acetaminophen)10/325; One tab every 6 hours as needed*
- Constipation Docusate (Colace) 100mg; 1 tab twice daily as needed.
- DVT prophylaxis- Aspirin 81mg; 2 tabs daily x 14 days
- ****** Aspirin starts post-operative day #1

Knee Ligament Reconstruction

- Pain- Percocet (Oxycodone/Acetaminophen) 10/325; One tab every 6 hours as needed*
- Antibiotic Keflex 500mg; One tab 4 times daily x 4 days
 - o Keflex allergy Clindamycin 300mg; One tab twice daily x 7days.
- Constipation Docusate (Colace) 100mg; 1 tab twice daily as needed (Max 3 tabs)
- DVT prophylaxis- Aspirin 81mg; 2 tabs daily x 28 days
- *****Antibiotics and Aspirin starts post-operative day #1

Non-weight bearing Lower Extremity Surgery (Distal Femoral Osteotomy, High Tibial Osteotomy, Tibial Tubercle Osteotomy, Cartilage Transplant)

- Antibiotic Keflex 500mg; One tab 4 times daily x 4 days
 - Keflex allergy Clindamycin 300mg; One tab twice daily x 7days.
- Pain- Percocet (Oxycodone/Acetaminophen) 10/325; One tab every 6 hours as needed*
- Constipation Docusate (Colace) 100mg; 1 tab twice daily as needed (Max 3 tabs)
- DVT prophylaxis- Aspirin 81mg; 2 tabs daily x 28 days
- ******Antibiotics and Aspirin starts post-operative day #1

Shoulder/Elbow Surgery

- Antibiotic Keflex 500mg; One tab 4 times daily x 4 days
 - Keflex allergy Clindamycin 300mg; One tab twice daily x 7days.
- Pain- Percocet (Oxycodone/Acetaminophen)10/325; One tab every 6 hours as needed*
- Constipation Docusate (Colace) 100mg; 1 tab twice daily as needed.



Ankle fracture surgery & Achilles Tendon Surgery

- Antibiotic Keflex 500mg; One tab 4 times daily x 4 days
 - o Keflex allergy Clindamycin 300mg; One tab twice daily x 7days.
- Pain- Percocet (Oxycodone/Acetaminophen)10/325; One tab every 6 hours as needed*
- Constipation Docusate (Colace) 100mg; 1 tab twice daily as needed.
- DVT Prophylaxis Aspirin 81mg; 2 tabs daily x 28 days
- ****Antibiotics and Aspirin starts post-operative day #1

Ankle arthroscopy +/- Microfracture

- Pain- Percocet (Oxycodone/Acetaminophen) 10/325; One tab every 6 hours as needed*
- DVT Prophylaxis Aspirin 81mg; 2 tabs daily x 14 days
- ****Aspirin starts post-operative day #1

Hamstring repair

- Antibiotic Keflex 500mg; One tab 4 times daily x 4 days
 - Keflex allergy Clindamycin 300mg; One tab twice daily x 7days.
- Pain- Percocet (Oxycodone/Acetaminophen)10/325; One tab every 6 hours as needed*
- Constipation Docusate (Colace) 100mg; 1 tab twice daily as needed.
- DVT Prophylaxis Aspirin 81mg; 2 tabs daily x 28 days
- ****Antibiotics and Aspirin starts post-operative day #1

*** HIGH RISK DVT Patients – patients on oral contraceptives, smokers, or history of previous DVT or embolus

- · Will receive
 - Xeralto (Rivaroxaban) 10mg; 1 tab daily x 14 days
 - Followed by aspirin 81mg; 2 tabs daily x 14 days

^{*} No refills of narcotic pain medication will be given. You must transition to over the counter Aleve or Motrin after your initial course of narcotic pain medication is completed. If you have any stomach issues you may transition to Extra Strength Tylenol instead.



Associate Professor of Orthopaedics Chief, Division of Sports Medicine Tel: (646) 501-7223

<u>Post-Operative Instructions</u> <u>Shoulder Arthroscopy and Rotator Cuff Repair +/-Biceps Tenodesis</u>

Day of Surgery

- **A.** Diet as tolerated.
- **B.** Icing is important for the first 5-7 days post-op. While the post-op dressing is in place, icing should be done continuously. Once the dressing is removed on the first or second day, ice is applied for 20-minute periods 3-4 times per day. Care must be taken with icing to avoid frostbite. Alternatively, Cryocuff or Game-ready ice cuff can be used as per instructions.

You will be contacted by East Coast Orthotics regarding an ice compression unit to be used after surgery. This helps with pain and swelling but typically is not covered by insurance. The cost is \$200-300 for a 2-week rental. Alternatively, ice gel packs with a shoulder or knee sleeve can be provided by the hospital for a minimal charge.

C. Pain medication as needed every 6 hours (refer to pain medication sheet)

First and Second Post-Operative Day

- A. Continue Icing.
- B. Pain medications as needed

Third Post-Operative Day

A. You may remove surgical bandage and shower this evening. Apply regular bandages to these wounds prior to showering and when showering is complete apply fresh regular bandages. You will need to follow this routine for 2 weeks after surgery.

Physical Therapy

A. Physical Therapy should begin at 4 weeks. Please call your preferred facility to make an appointment.

*Note: Your shoulder will be very swollen. It may take a week or longer for this to go away. It is also common to notice burning around the shoulder as the swelling resolves. If excessive bleeding occurs, please notify Dr. Jazrawi.

Call our office @ 646-501-7223 option 4, option 2 to confirm your first postoperative visit, which is usually about 1-2 weeks after surgery. If you are experiencing any problems, please call our office or contact us via the internet at www.newyorkortho.com.



Rehabilitation Protocol After Arthroscopic Rotator Cuff Repair

The anatomic configuration of the shoulder joint (glenohumeral joint) is often compared to that of a golf ball on a tee. This is because the articular surface of the round humeral head is approximately four times greater than that of the relatively at shoulder blade face (glenoid fossa)¹. This configuration provides less boney stability than a truer ball and socket joint, like the hip. The stability and movement of the shoulder is controlled primarily by the rotator cuff muscles, with assistance from the ligaments, glenoid labrum and capsule of the shoulder. The rotator cuff is a group of four muscles: subscapularis, supraspinatus, infraspinatus and teres minor (Figure 1).

Rotator cuff tears can occur from repeated stress or from trauma. Throwing a baseball can create up to 750 newtons of distractive force on the shoulder². This places a significant amount of stress on the rotator cuff while trying to dissipate this force. This stress and force may be even greater if there is improper form or mechanics while throwing. This repeated stress may lead to rotator cuff tears. Rotator cuff trauma also may result from falling on your arm, bracing your arm in an accident, arm tackling in football or any large sudden force applied to the arm. Most rotator cuff tears involve the supraspinatus and/or the infraspinatus. Occasionally isolated tears of the subscapularis can occur. This usually results from trauma rotating the shoulder outward.

The rotator cuff tendons also undergo some degeneration with age. This process alone can lead to rotator cuff tears in older patients. Patients over 50 years of age are more susceptible to sustaining a significant rotator cuff tear from trauma3.





Figure 1 Rotator cuff anatomy

Image property of Primal Pictures, Ltd., primalpictures, com. Use of this image without authorization from Primal Pictures, Ltd. is prohibited.

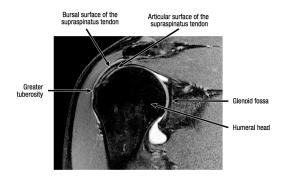


Figure 2. Coronal MRI Image of the Supraspinatus Note the black line of the bursal surface and articular surface. In this normal shoulder this tendon continues all the way to the greater tuberosity, the attachment site on the humerus. When there is a rotator cuff tear these black lines will become disrupted before reaching the greater fuberosity.

Rehabilitation Protocol After Arthroscopic Rotator Cuff Repair

Rotator cuff tears can be classified in various ways. The first classification is a partial thickness or a full thickness tear. Normal tendon thickness is 9 to 12 mm. Partial thickness tears start on one surface of the tendon, but do not progress through the depth of the tendon. These can be bursal surface tears or articular sided tears . Figure 2 shows the normal anatomy of the bursal and articular side of the rotator cuff. Bursal surface tears occur on the outer surface of the tendon and may be caused by repetitive impingement. Articular sided tears (Figure 3) occur on the inner surface of the tendon, and are most often caused by internal impingement or tensile stresses related to overhead sports. Full thickness or complete tears (Figure 4) extend from one surface of the tendon all the way through to the other surface of the tendon. Full thickness tears are often caused by trauma, such as falling on the arm. Since a portion of the tendon is completely disrupted, there also will be some tendon retraction. Retraction is movement of the tendon away from its insertion point back toward the muscle.⁴ After determining the type of tear, a classification system is used to assess the size of the tear. Type I tears are tears less than 2 cm in width and Type II tears are greater than 2 cm.

Surgical repair of a rotator cuff tear can be done arthroscopically or with a mini- open procedure. A 2007 review published in The Journal of Bone and Joint Surgery stated that equally successful outcomes can be attained from either technique5. The primary goal of a rotator cuff repair is to restore the normal anatomy by approximating the rotator cuff tendon back to its normal attachment site on the greater tuberosity of the humerus. This is done by passing sutures through the tendon and then tying the tendon down to suture anchors that have been placed in the humerus. Prior to bringing the tendon back to its insertion, the edges of the tear may need to be brought together, referred to as side-to-side repair or convergence (Figure 5). Not all rotator cuff tears are repairable. A tear may be un-repairable if the tear is too large, there is too much retraction, or the tissue quality is too poor. The degree of success for tears that are repaired is related to various factors, including tear size, the number of tendons involved, patient age, associated injuries and post operative rehabilitation ^{6,7}.



Figure 3 Coronal MRI image of an articular surface tear of the supraspinatus. Note the top black line has maintained continuity but the undersurface black line is disrupted.

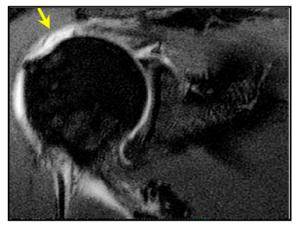
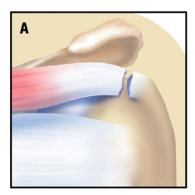
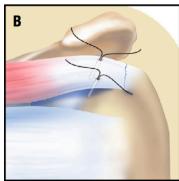


Figure 4 Coronal MRI image of a full thickness tear of the supraspinatus. Note the white fluid present where the dark tendon should be.

Rehabilitation Protocol After Arthroscopic Rotator Cuff Repair

Rehabilitation is vital to regaining motion, strength and function of the shoulder after surgery. Initially patients will use a sling to protect the repair site and allow healing of the tendon back to the bone. During this time, passive motion exercises are started to prevent the shoulder from getting stiff and losing mobility. The rehabilitation program will gradually progress to more strengthening and control type exercises. The rehabilitation guidelines will vary depending on the size of the tear and quality of the tendon. The rehabilitation guidelines for Type I and Type II tears of the supraspinatus or infraspinatus and isolated subscapularis tears are presented below in a criterion based progression. General time frames are given for reference to the average, but individual patients will progress at different rates depending on their age, associated injuries, pre-injury health status, rehabilitation compliance and injury severity.





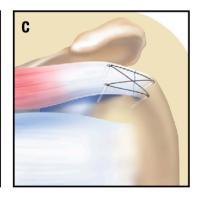


Figure 5 Rotator cuff repair technique using anchors and sutures. The tear (A) is approximated. Then suture anchors are placed on both sides of the tear (B and C). Finally the tendon is approximated back to the bone with various suture patterns to decrease focal stress.



Rehabilitation Protocol: Arthroscopic Rotator Cuff Repair

Name:	Date:
Diagnosis:	Date of Surgery:
Phase I (Weeks 0-4)	
 Sling immobilization with supporting and rehab under guidance of PT (if in the supportion of the supportion	ge of Motion Only to Patient Tolerance 40° External Rotation with elbow at side, 60-80° Abduction without on to 40° with the shoulder in the 60-80° abducted position to mid-axillary line when patient is supine pulleys during this phase s Motion and Grip Strengthening on
6-8 weeks: Begin AAROMTherapeutic Exercise	etch to reach ROM goals from Phase I OM exercises (supine position), gentle joint mobilizations (grades I
 Phase III (Weeks 8-12) Range of Motion – Begin AROM Therapeutic Exercise Continue with scapular streng Continue and progress with Plant of Begin Internal/External Rotat 	hase II exercises

• Modalities per PT discretion

o Stretch posterior capsule when arm is warmed-up



Laith M Jazrawi, MDProfessor of Orthopedic Surgery
Chief, Division of Sports Medicine
T 646-501-7223

Phase IV (Months 3-6)

- Range of Motion Full without discomfort
- Therapeutic Exercise Advance strengthening as tolerated starting at 4 months: isometrics → therabands
 → light weights (1-5 lbs),
 - o 8-12 repetitions/2-3 sets for Rotator Cuff, Deltoid and Scapular Stabilizers
 - o Return to sports at 6 months if approved
- Modalities per PT discretion
- No strengthening or resistance exercises until 4 months post-op.

Comments:

**IF BICEPS TENODESIS WAS PERFORMED - NO BICEPS STRENGTHENING UNTIL 8 WEEKS POST-OP

Frequency: times per week	Duration: weeks	
Signature:	Date:	



PHYSICAL THERAPY LOCATIONS

Please schedule your post-operative physical therapy appointments BEFORE your surgery

Manhattan Sports and Manual Physical Therapy

10 East 33rd Street, 2nd Floor New York, NY 10016 (646) 487-2495 www.msmpt.com

NYU Langone Orthopedic Center PT

333 E 38th St, 5th Floor New York, NY 10016 (646) 501-7077

Other Locations:

BROOKLYN				
R.P.T. Physical	335 Court Street	Cobble Hill	11231	(718) 855-1543
Therapy				
One on One PT	2133 Ralph Ave	Flatlands	11234	(718) 451-1400
One on One PT	17 Eastern Parkway	Prospect Heights	11238	(718) 623-2500
One on One PT	9920 4th Ave	Bay Ridge	11209	(718) 238-9873
One on One PT	1390 Pennsylvania Ave	Canarsie	11239	(718) 642-1100
One on One PT	1715 Avenue T	Sheepshead Bay	11229	(718) 336-8206

MANHATTAN-				
DOWNTOWN				
Health SOS	594 Broadway	New York	10012	(212) 343-1500
Occupational & Industrial Orthopaedic Center	63 Downing Street	New York	10014	(212) 255-6690
Promobility	401 Broadway	New York	10013	(646) 666-7122

MANHATTAN -EAST SIDE				
Harkness Center for Dance	614 Second Ave	New York	10003	(212) 598-6054
(PT Service)				
RUSK at the Men's Center	555 Madison Ave	New York	10022	(646) 754-2000
RUSK Physical Therapy	240 E. 38th Street	New York	10016	(212) 263-6033
STAR Physical Therapy	160 E. 56th Street	New York	10022	(212) 355-7827



		I		
Therapeutic Inspirations	144 E. 44th St	New York	10017	(212) 490-3800
MANHATTAN UPPER				
EAST SIDE				(2.12)
Health SOS	139 E. 57th Street	New York	10022	(212) 753-4767
Premier PT	170 E. 77th Street	New York	10021	(212) 249-5332
Rusk PT at Women 's Health Center	207 E. 84th Street	New York	10028	(646) 754-3300
SPEAR PT	120 E. 56th Street	New York	10022	(212) 759-2211
Sports PT of NY	1400 York Ave	New York	10021	(212) 988-9057
1			I	
MANHATTAN UPPER				
WEST SIDE				
Premier PT	162 W. 72nd Street	New York	10023	(212) 362-3595
Sports PT of NY	2465 Broadway	New York	10025	(212) 877-2525
MANHATTAN WEST SIDE				
Sports Medicine at Chelsea	22 West 21st Street Suite 400	New York	10010	(646) 582-2056
Chelsea Physical Therapy &	119 W. 23rd Street	New York	10011	(212) 675-3447
Rehabilitation				
SPEAR Physical Therapy	36 W. 44th Street	New York	10036	(212) 759-2280
QUEENS				
Ergo Physical Therapy P.C.	107-40 Queens Blvd	Forest Hills	11375	(718) 261-3100
Susan Schiliro, PT (Hand & Upper Extremity only)	99-32 66th Road	Rego Park	11374	(718) 544-1937

STATEN ISLAND				
One on One PT	31 New Dorp Lane	Staten	10306	(718) 979-4466
	1 st , Floor	Island		
One on One PT	33 Richmond Hill	Staten	10314	(718) 982-6340
	Rd	Island		

LONG ISLAND				
Health SOS	375 Deer Park Ave	Babylon	11702	(631) 321-6303





Hand in Hand	346 Westbury	Carle	11514	(516) 333-1481
Rehabilitation (Hand &	Ave	Place		
Upper Extremity only)				
Home PT Solutions	111 W. Old	Hicksville	11801	(516) 433-4570
	Country Rd.			
Bi-County Physical	270-03 Hillside	New Hyde	11040	(718) 831 -
Therapy & Rehabilitation	Ave	Park		1900
Bi-County Physical	397 Willis Ave	Williston	11596	(516) 739-5503
Therapy & Rehabilitation		Park		

WESTCHESTER				
Health SOS	1015 Saw Mill River	Ardsley	10502	(914) 478-8780
Premier PT	223 Katonah Ave	Katonah	10536	(914) 232-1480
PRO Sports PT of	2 Overhill Road	Scarsdale	10583	(914) 723-6987
Westchester				
Westchester Sports	672 White Plains	Scarsdale	10583	(914) 722-2400
Physical Therapy, PC	Road			
Rye Physical Therapy and	411 Theodore Fremd	Rye	10580	(914) 921-6061
Rehabilitation	Ave			
Rye Physical Therapy and	15 North Broadway;	White	10601	(914) 686-3132
Rehabilitation	Suite K	Plains		

CONNECTICUT				
Premier PT	36 Old Kings Hwy S	Darien	06820	(203) 202-9889

NEW JERSEY				
Jersey Central Physical	21 47 Route 27	Edison	08817	(732) 777-9733
Therapy & Fitness				
Jag PT	34 Mountain Blvd	Warren	07059	(908) 222-0515
Jag PT	622 Eagle Rock Ave	West	07052	(973) 669-0078
		Orange		