Hospital for Special Surgery HSS-Main Campus		Hospital for Special Surgery HSS-Brooklyn 148 39 th St, 7 th Fl.
523 East 72 nd St Ground Fl. New York, NY 10021	Sports + Shoulder	Brooklyn, NY 11232
	DR. GABRIELLA ODE	
Tel: 212.606.1403	Sports Medicine & Shoulder Surgery <u>www.GOsportsmed.com</u>	Fax: 917.260.4903

PHYSICAL THERAPY PROTOCOL REVERSE TOTAL SHOULDER ARTHROPLASTY

Procedure	Date of Surgery:	PLAN
	R L B/L Reverse Total Shoulder Arthroplasty	Physical Therapy for R L B/L Shoulder
	[] For OA/Cuff Tear	
	[] For Proximal Humerus Fracture	2-3x Per Week x 12 Weeks
	[] For Revision Arthroplasty	
	Additional Procedures:	
General Guidelines	The intent of this protocol is to provide the physical therapist with a guideline/treatment protocol for the postoperative rehabilitation management for a patient who has undergone a Reverse Shoulder Arthroplasty (RSA). It is not a substitute for a physical therapist's clinical decision making regarding the progression of a patient's postoperative rehabilitation based on the individual patient's physical exam/findings, progress, and/or the presence of postoperative complications. If the physical therapist requires assistance in the progression of a postoperative patient who has had RSA the therapist should consult with the referring surgeon. The scapular plane is defined as the shoulder positioned in 30 degrees of abduction and forward flexion with neutral rotation. ROM performed in the scapular plane should enable appropriate shoulder joint alignment. Shoulder Dislocation Precautions: No shoulder motion behind back. (NO combined shoulder adduction, internal rotation, and extension.) No glenohumeral (GH) extension beyond neutral. *Precautions should be implemented for <u>6 weeks postoperatively</u> unless surgeon specifically advises patient or therapist differently. Surgical Considerations: The surgical approach needs to be considered when devising the postoperative plan of care.	

Hospital for Spec HSS-Main Campu 523 East 72 nd St C New York, NY 100	s Ground Fl.	Hospital for Special Surgery HSS-Brooklyn 148 39 th St, 7 th Fl. Brooklyn, NY 11232
	DR. GABRIELLA ODE	
Tel: 212.606.1403	Sports Medicine & Shoulder Surgery <u>www.GOsportsmed.com</u>	Fax: 917.260.4903
	 Deltopectoral approach Unless stated otherwise by the surgeon a RSA minimizes surgical trauma to the anterior deltoid. An incision is made from the coracoid, extending 5cm distally along the orthogen the deltoid is gently retracted laterally. Meticulous care is taken to protect released and later tenodesed. If intact, the subscapularis tendon is tenotomized allowing for exposure or the end of the case. Refer to the operative note and subscapularis manageo If subscapularis was repaired, internal rotation strengthening ma Delayed Start of Therapy: The start of this protocol is delayed 2-4 weeks for a revision surgery. 	deltopectoral groove. The cephalic vein is mobilized and et injury to the deltoid muscle. The biceps tendon is of the humeral head and whenever possible, <u>repaired</u> at gement for specific restrictions] y begin at 12 weeks
Phase I (Day 1–Week 6) Immediate Post Surgery and Initiation of Range of Motion Phase	 In the case of delayed start to physical therapy adjust below timeframes so that d GOALS Patient and family independent with: Joint protection Passive range of motion (PROM) Assisting with putting on/taking off sling and clothing Assisting with home exercise program (HEP) Cryotherapy Promote healing of soft tissue / maintain the integrity of the replaced joint. Enhance PROM. Restore active range of motion (AROM) of elbow/wrist/hand. Independent with activities of daily living (ADL's) with modifications. Independent with bed mobility, transfers and ambulation or as per preadmission status. 	 PRECAUTIONS Sling is worn for 2 weeks postoperatively and only removed for exercise, bathing and seated in a chair with arm rests once able. The use of a sling may be extended for a total of 6 weeks, if the current RSA procedure is a revision surgery or for fracture management. While lying supine, the distal humerus/elbow should be supported by a pillow or towel roll to avoid shoulder extension. Patients should be advised to "always be able to visualize their elbow while lying supine."

Hospital for Special Surgery HSS-Main Campus 523 East 72 nd St Ground Fl.	$\Box \blacksquare \bigcirc$	Hospital for Special Surgery HSS-Brooklyr 148 39 th St, 7 th Fl Brooklyn, NY 11232
New York, NY 10021	Sports 🕂 Shoulder	Diookiyn, wr 1125
	DR. GABRIELLA ODE	
Tel: 212.606.1403	Sports Medicine & Shoulder Surgery <u>www.GOsportsmed.com</u>	Fax: 917.260.490
 Insure proper sling fit Active/Active Assister wrist, and hand. Continuous cryothera needed for pain Start home exercise p 2 weeks to 6 weeks: Continue all exert Continue to main extension (reaching 2 lbs) Passive Range of at 2 weeks: Forward supine to supine to exert exerts ER in scat constrain not intermed to exert exerts Gentle resisted exerts 	ependent in bed mobility, transfers and ambulation. z/alignment/use. d ROM (AROM/AAROM) of cervical spine, elbow, apy for first 72 hours postoperatively, then apply as brogram at postop day 7 (on last page) cises as above atain precautions of combined internal rotation and ng behind back) as well as no lifting heavier than 1- Motion (PROM) <u>therapy assisted</u> typically begins flexion and elevation in the scapular plane in 0 120 degrees. pular plane to tolerance, respecting soft tissue	 No lifting of objects with operative extremity. No supporting of body weight with involved extremity. May shower on post op day 1. Outside of showering, keep the incision clean and dry. No soaking/submerging for 2 weeks; No whirlpool, fresh or salt water for 4 weeks.

Hospital for Speci HSS-Main Campu 523 East 72 nd St G New York, NY 100	s iround Fl.	Hospital for Special Surgery HSS-Brooklyn 148 39 th St, 7 th Fl. Brooklyn, NY 11232
	DR. GABRIELLA ODE	
Tel: 212.606.1403	Sports Medicine & Shoulder Surge <u>www.GOsportsmed.com</u>	ery Fax: 917.260.4903
	 May also begin pain free sub-max deltoid isometrics May use arm for pain free waist level activities Active Assisted Range of Motion (AAROM) typically begins at <u>2</u> weeks Forward flexion and elevation in scapular plane in supine with progression to lawn chair then to standing ER in scapular plane in supine Active Range of motion (AROM) typically begins at <u>3 weeks</u> Based on response to AAROM Progress from supine to lawn chair to standing Manual Therapy Soft tissue massage upper trapezius, pec minor, scapular stabilizers Desensitization scar tissue 	
Phase II (Weeks 6 - 8) Restoration of Functional Motion	 GOALS ROM goals to be achieved by week 8 Forward elevation 0-140° degrees ER 0-30° in neutral Functional external rotation (to mouth and behind head) Internal rotation not beyond 50 degrees in scapular plane or back pocket (initiated at 6 weeks) Continue progression of PROM Restore full prosthesis appropriate AROM. Re-establish dynamic shoulder and scapular stability. Control pain and inflammation. 	 PRECAUTIONS Due to the potential of an acromion stress fracture one needs to continuously monitor the exercise and activity progression of the deltoid. A sudden increase of deltoid activity during rehabilitation could lead to excessive acromial stress. A gradually progressed, pain-free program is essential. Continue to avoid shoulder hyperextension. In the presence of poor shoulder mechanics avoid repetitive shoulder AROM exercises/activity.

Hospital for Spec HSS-Main Camp 523 East 72 nd St New York, NY 10	us Ground Fl.	Hospital for Special Surgery HSS-Brooklyn 148 39 th St, 7 th Fl. Brooklyn, NY 11232
	DR. GABRIELLA ODE	
Tel: 212.606.140	Sports Medicine & Shoulder Surger www.GOsportsmed.com	y Fax: 917.260.4903
PHASE III (Weeks 8 - 12) Restoration of Functional Strength	 TREATMENT RECOMMENDATIONS Continue progression of PROM, gentle stretching allowed. Restore full AROM May initiate active IR, adduction and extension (to back pocket) at 6 weeks for functional activities only. No end range stretching behind the back until week 12 Begin gradual return to all non-weight bearing and light lifting ADL's GOALS Restoration of deltoid, periscapular and teres minor strength for functional activities. TREATMENT RECOMMENDATIONS Strengthening typically begins at week 8-10 Peri-scapular musculature Gentle deltoid strengthening once demonstrate good quality of motion, without excessive compensation and minimal symptoms Focused teres minor strengthening 	 Restrict lifting of objects no more then 1-2 lbs No weight bearing through involved upper extremity. PRECAUTIONS If subscapularis was repaired, internal rotation strengthening may begin at 12 weeks Monitor closely for acromial tenderness. Discontinue all strengthening and consult surgeon if acromial pain persists.
	 Focused teres minor strengthening Gentle (grade I and II) glenohumeral and scapulothoracic joint mobilizations as needed. Note that anatomic arthrokinematic rules do not apply for the reversed joint. If subscapularis is repaired, may begin gentle IR <u>strengthening</u> at 12 weeks. In the absence of an intact subscapularis, IR strengthening is not indicated. May weight bear through the arm only as needed for activities of daily living. 	



HOME EXERCISES (Starting at Day 7):

Home Stretching Exercises	Stand behind a chair with both hands on the back of the chair.	
#1	• Back up a few steps and bend forward until you feel a stretch in front of your shoulders. Keep your back flat and your	
Shoulder Flexion Stretch	elbows softly bent.	
	Hold for 10 seconds and then return to your starting position.	
	• Frequency: 1 set of 10 reps. 3 times a day; 6-7 days a week	

