



JOSHI HOSPITAL MULTI SUPER SPECIALITY & TRAUMA CENTER



ARTHROSCOPIC RTC TYPE 1 WITH BICEPS TENODESIS

(Rehabilitation Guidelines For Arthroscopic Rotator Cuff Repair With Bicep Tenodesis)

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# JOSHI HOSPITAL MULTI SUPER SPECIALITY & TRAUMA CENTER

# Rehabilitation Guidelines for Arthroscopic Rotator Cuff Repair with Bicep Tenodesis

### Type 1 Repairs

#### (+/- subacromial decompression)

The rehabilitation guidelines are presented 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, rehab compliance, and injury severity. Specific time frames, restrictions and precautions may also be given to protect healing tissues and the surgical repair/reconstruction.

#### Phase 1 (Surgery to Day 14)

APPOINTMENTS	Meet with physician at 1 and 6 weeks post-op
	Begin physical therapy 7-10 days post-op. Continue 1-2x per week
REHAB GOALS	1. Maximally protect the surgical repair
	2. Promote tissue healing
	3. Gradually increase passive ROM
	4. Diminish pain and inflammation
	5. Prevent muscular inhibition
	6. Activation of the stabilizing muscles of the gleno-humeral and scapulo-
	thoracic joints
PRECAUTIONS	1. No lifting of objects
	2. No overhead motions
	3. No excessive shoulder motions including extension, ER/IR (for 6-8 weeks)
	4. No excessive stretching or sudden movements
	5. No supporting of body weight by hands
	6. Keep incision site clean and dry
	7. Sleep in abduction pillow brace until discontinued by MD
	8. Sling immobilization required for soft tissue healing
	9. Hypersensitivity in axillary nerve distribution is a common occurrence
	10. No bicep tension for 6 weeks to protect repaired tissues - this includes
	avoiding active long lever arm flexion ROM and resisted supination, elbow
	flexion, and shoulder flexion
	11. Limit external rotation to 40° for the first 4 weeks
	12. No extension or horizontal extension past body for 4 weeks
ROM EXERCISES	Day 1-6: 30° abduction pillow brace

(Please do not exceed	<ul> <li>Hand/wrist/elbow AROM Exercises</li> </ul>
the ROM specified for	Shoulder PROM exercises:
each exercise and	<ul> <li>Shoulder flexion to tolerance (painful ROM)</li> </ul>
time period)	- 25-30° of ER/IR in scapular plane at 45° (pain free ROM)
	Shoulder AAROM exercises:
	- ER/IR at 45° in scapular plane (as above)
	- Pendulum Exercises
	Day 7-14: continue use of 30° abduction pillow brace
	Hand/wrist/elbow AROM Exercises
	Shoulder PROM exercises:
	- Flexion to at least 115°
	- 30-35° ER in scapular plane at 45° abduction
	- 30-35° IR in scapular plane at 45° abduction
	Shoulder AAROM exercises:
	<ul> <li>Flexion to tolerance (PT assists especially with arm lowering)</li> </ul>
	- ER/IR in scapular plane at 45° (see arc above)
	- Pendulum Exercises
SUGGESTED	Day 1-6:
THERAPEUTIC	<ul> <li>Elbow/hand gripping exercises 4-6x per day</li> </ul>
	- Codman's Pendulum exercises
EXERCISE	<ul> <li>Submaximal isometrics of shoulder musculature pain free</li> </ul>
	(initiate week 3)
	o ER/IR
	<ul> <li>abduction/adduction</li> </ul>
	<ul> <li>Cervical spine and scapular AROM</li> </ul>
	<ul> <li>Desensitization techniques for axillary nerve</li> </ul>
	distribution
	<ul> <li>Cryotherapy for pain and inflammation</li> </ul>
	Day 7-14:
	<ul> <li>Continue elbow/hand gripping exercises</li> </ul>
	<ul> <li>Continue isometrics: submaximal and sub-painful (may apply</li> </ul>
	NMES to shoulder external rotators for muscle re-education)
	o Shoulder add/abd
	o ER/IR in scapular plane
	- Initiate Rhythmic Initiation ER/IR at 45° abduction in
	scapular plane
	- Cryotherapy for pain and inflammation
CARDIOVASCULAR	Walking, stationary bike – brace on. No treadmill
FITNESS	(Avoid running and jumping due to the distractive forces that can occur at
NO PENELTERAL	landing).

# Phase 2 (Post-Op Day 15 to Week 6)

APPOINTMENTS	Meet with physician 6 weeks post-op Physical therapy 1x every 1-2 weeks
REHAB GOALS	<ol> <li>Allow healing of soft tissue</li> <li>Full AROM, Full Rotator Cuff Strength at neutral</li> <li>Do not overstress healing tissue</li> </ol>

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	4. Gradually restore full passive ROM (week 4-5)
	5. Re-establish dynamic shoulder stability
	6. Decrease pain and inflammation
PRECAUTIONS	No heavy lifting of objects
	2. No carrying objects
	3. No excessive behind the back movements
	4. No supporting of body weight by hands and arms
	5. No sudden jerking motions
	6. Begin unweighted elbow AROM
	7. No PROM for abduction and external rotation or extension
ROM EXERCISES	Week 2-4: Gradually progress ROM
(Please do not	PROM to tolerance
exceed the ROM	- Shoulder flexion to 140-155°
specified for each	- 45-50° shoulder ER at 90° abduction
exercise and time	- 30-45° shoulder IR at 90° abduction
70 707	AAROM to tolerance
period)	- Shoulder flexion (continue use of arm support as needed)
	- ER/IR in scapular plane at 45° abduction
	- ER/IR at 90° abduction
	Week 4-5:
	Full Shoulder PROM by Week 4
	Continue AAROM exercises as above
	May use pool for light AROM exercises
	Week 5-6: May use heat prior to exercises
	AAROM exercises especially in planes where limitations exist
	Initiate AROM exercises
	- Shoulder flexion scapular plane to 90° flexion
	- Shoulder abduction to 90° abduction
SUGGESTED	Week 2-4:
	Rhythmic stabilization drills
THERAPEUTIC	- ER/IR in scapular plane
EXERCISE	- Shoulder flexion/extension at 100-125° flexion
	Continue all isometric contractions
	Initiate scapular isometrics
	Continue cryotherapy as needed
	Maintain all above precautions
	Week 4-5:
	Continue all exercises listed above
	<ul> <li>Initiate ER/IR strengthening using exercise tubing at 0° abduction (use towel roll)</li> </ul>
	<ul> <li>Initiate manual resistance ER supine in scapular plane (light resistance)</li> </ul>
	Initiate prone rowing with the arm at 30° abduction to neutral arm position
	Initiate ER strengthening
	<ul> <li>Rhythmic Stabilization exercises at varying degrees of shoulder flexion</li> </ul>

	Week 5-6:
	Continue all exercises listed above
	ER tubing
	ER side-lying
	<ul> <li>Prone rowing at 45° abduction</li> </ul>
	<ul> <li>Prone horizontal abduction (bent elbow) at 90° abduction</li> </ul>
CARDIOVASCULAR	Walking, stationary bike. No treadmill walking until cleared by MD.
FITNESS	(Avoid running and jumping due to the distractive forces that can occur at landing).

# Phase 3 (Post-Op Week 7 - Week 14)

Physical therapy 1-2x weeks  1. Full active ROM (weeks 8-10) in all cardinal planes with normal scapulo-humeral movement  2. Maintain full passive ROM  3. Dynamic shoulder stability  4. Gradual restoration of shoulder strength  5. Gradual return to functional activities  6. 5/5 rotator cuff strength at 90° abduction in the scapular plane  7. 5/5 peri-scapular strength  1. Ensure all Phase 2 goals are met before beginning Phase 3  2. Patient must be able to elevate arm without shoulder or scapular hiking before initiating isotonics. If unable, continue dynamic rhythmic stabilization glenohumeral joint exercises  3. All exercises and activities to remain non-provocative and low to medium velocity  4. Avoid activities where there is a higher risk for falling or outside forces to be applied to the arm  5. No swimming, throwing or sports  Week 7-8:  • Continue stretching and passive ROM as needed to maintain full PROM  • Continue to progress AROM  Week 8-10:  • Full AROM should be achieved  Week 10-14:  • Continue stretching/soft tissue work to maintain tissue integrity as needed	Phase 3 (Post-Op We	1945 PASS IN 18 W 18 TO
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Week 8-10:		PROM
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SUGGESTED THERAPEUTIC  EXERCISE		<ul> <li>Continue stretching/soft tissue work to maintain tissue integrity as</li> </ul>
THERAPEUTIC  EXERCISE  • ER/IR tubing • ER side-lying • Lateral raises to 90° abduction • Full can in scapular plane to 90° elevation • Prone rowing/extension/horizontal abduction		
EXERCISE      ER side-lying     Lateral raises to 90° abduction     Full can in scapular plane to 90° elevation     Prone rowing/extension/horizontal abduction	SUGGESTED	Week 7:
ER side-lying     Lateral raises to 90° abduction     Full can in scapular plane to 90° elevation     Prone rowing/extension/horizontal abduction	THERAPELITIC	ER/IR tubing
<ul> <li>Lateral raises to 90° abduction</li> <li>Full can in scapular plane to 90° elevation</li> <li>Prone rowing/extension/horizontal abduction</li> </ul>		ER side-lying
<ul> <li>Prone rowing/extension/horizontal abduction</li> </ul>	EXERCISE	Lateral raises to 90° abduction
		Full can in scapular plane to 90° elevation
Week 8-9:		<ul> <li>Prone rowing/extension/horizontal abduction</li> </ul>
- 305/00/00/00/00/00/00/00/00/00/00/00/00/0		Week 8-9:

	<ul> <li>Continue all exercises listed above, and progress patient as able</li> <li>Initiate light functional exercises as permitted by MD</li> <li>Initiate resisted (isometric) elbow flexion from week 9-12</li> <li>Week 10:         <ul> <li>Continue all exercises listed above</li> <li>Initiate isotonic resistance during shoulder flexion and abduction if non-painful normal motion is achieved without muscular substitution patterns</li> </ul> </li> <li>Week 11-14         <ul> <li>Progress all exercises – be sure no residual pain is present following exercises</li> </ul> </li> </ul>
CARDIOVASCULAR FITNESS	Walking, stationary bike, running, UBE, sport specific interval training NO SWIMMING

# Phase 4 (Post-Op Week 15 - Week 24)

Fliase 4 (Fost-Op We	CER 15 WEER 24)
<b>APPOINTMENTS</b>	Meet with physician at 18 weeks post-op
Englished R. Status (Schoolspace Figures) Benefit special spec	Physical therapy 1x every 3 weeks
REHAB GOALS	Maintain full non-painful ROM
	Enhance functional use of upper extremity
	Improve muscular strength and power
	4. Gradual return to functional activities
	5. Patient to demonstrate stability with higher velocity movements
	and change of direction movements
	6. 5/5 rotator cuff strength with multiple repetition testing at 90°
	abduction in the scapular plane
PRECAUTIONS	1. Ensure all Phase 3 goals are met before beginning Phase 4
11120/10110113	2. Progress gradually into provocative exercises by beginning with low
	velocity, known movement patterns
ROM EXERCISES	Week 15-24: Continue flexibility exercises and educate on self-
INDIVI EXERCISES	capsular stretches
SUGGESTED	Week 15-24:
THERAPEUTIC	Continue isotonic strengthening program
	Progress all exercises and emphasize functional movements
EXERCISE	<ul> <li>Initiate isotonic elbow strengthening ranging from week 15-22</li> </ul>
	Initiate sports specific activities as appropriate
	- Golf Program at week 16
	- Throwing Program at Week 20
	- Higher velocity strengthening and control, such as the inertial,
	plyometrics, rapid theraband drills. Plyometrics should start with 2
	hands below shoulder height and progress to overhead, then back
	to below shoulder with one hand, progressing again to overhead
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CARDIOVASCULAR FITNESS	Walking, stationary bike, running, UBE, sport specific interval training, NO SWIMMING

## Phase 5 (Week 24-36)

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<b>APPOINTMENTS</b>	Meet with physician at 24 weeks post-op
	Physical therapy 1x every 2-3 weeks
REHAB GOALS	Gradual return to strenuous work activities
	Gradual return to recreational sport activities
	Maintain integrity of rotator cuff repair
	No apprehension or instability with high velocity overhead movements
	5. Improve core and hip strength and mobility to eliminate any
	compensatory stresses to the shoulder
PRECAUTIONS	1. Ensure all Phase 4 goals are met before beginning Phase 5
ROM EXERCISES	Continue all flexibility and mobility exercises
SUGGESTED	<ul> <li>Continue fundamental shoulder exercise program at least 4 times</li> </ul>
THERAPEUTIC	weekly (should continue shoulder program until at least 12
andressinas aumerakkasumeraden :	months following surgery or instructed otherwise
EXERCISE	<ul> <li>Continue progression to sport and/or work activity/participation</li> </ul>
	High velocity strengthening and dynamic control, such as the
	inertial, plyometrics, rapid theraband drills
	May initiate swimming at week 26
CARDIOVASCULAR	Walking, stationary bike, running, UBE, sport specific interval training
FITNESS	