

# Rotator Cuff Tear Cheat Sheet

by Jenna Ingola (jennaingola) via cheatography.com/165615/cs/34691/

### Pathophysiology

Majority occur in the rotator crescent

Rotator cable takes load majority, allowing the RC muscles to still function and keep humeral head in place

A tear in the ant. cable creates a larger gap, increases cuff strain, and loses its stress shielding capabilities

Mostly supraspinatus tendon

If the tear enlarges (which it may not), only a minority enlarge >5mm in 3 years

## **Prognosis**

Clinically important change (reported by pt) in 12 weeks

Up to 4-6 months (more severe cases)

## **Special Populations to Consider**

Diabetics	Tear frequently, do not respond well to treatment
Hypoth- yroidism	Susceptible to develop muscle aches, tenderness and stiffness
Metabolic	Cluster of conditions that
syndrome	increase risk of diabetes

## Epidemiology

Older sports person with shoulder pain during activity.

<40 generally trauma

>60 generally degenerative

40<x>60 either trauma or degenerative

## **Risk Factors for Progression**

Tear	1-tendon tears may remain dormant	
size	while 2-tendon lesions are more	
likely to undergo structural deteri-		
	oration	

By **Jenna Ingola** (jennaingola)

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cheatography.com/jennaingola/

## Risk Factors for Progression (cont)

Location Ant. RC cable tears have sig greater tear migration, decreased tendon stiffness, and increased regional tendon strain

Types		
Small	up to 1cm	
Medium	1-3 cm	
Large	3-5 cm	
Massive	>5cm	

## Clinical Presentation

Pain with overhead activity (throwing, swimming, overhead shots with racket). <90 degrees usually pain free.

Pain may present with abduction (painful arc) or IR behind back

Scapular muscle weakness and dysfunction, tightness of the posterior capsule and other soft tissues and postural abnormalities

## Subjective Markers

**MOI**: Falling on outstretched hand, unexpected pushing or pulling, or during shoulder dislocation.

Night pain.

History of associated symptoms of instability (ex. recurrent subluxation or episodes of "dead arm")

## Objective Assessment

Observ-	Muscle atrophy (infraspinatus
ation	may also mean suprascapular
	nerve injury)
Palpation	Tenderness over supraspinatus
	tendon to or at its insertion into
	the greater tuberosity of the
	humerus.

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Objective Assessment (cont)		
AROM/PROM	Painful arc btwn 70- 120deg (AROM). IR reduced.	
Strength	IR, ER (infraspinatus), and abd. (supraspinatus) may be reduced. Measure with the scapula accurately stabilized.	
Functional Tests	throwing overhead	

#### Rehab

Exercise > over no treatment or placebo and did not differ in outcomes compared to surgery or multi-modal physio (Littlewood et al)

Improving scapular stability, neuromuscular control of shoulder girdle and thoracic posture, "loosen" tight muscles

Address altered shoulder complex kinematics (decreased SA strength, hyperactivity and early activity of upper traps, decreased activity and late activations of middle and lower traps)

Examples: "low row", "lawnmover", "robber-y" - stabilizing but not stressing GHJ

Strengthening middle/lower traps, and RC muscles (starting w low load), ant. delt., and teres minor

Exercise plan (Edwards, Ebert, Joss, Bhabra et al. 2016)

Special Tests	
Subscapularis	Lift off, Belly Press, Belly- off sign, Bear Hug Test
Supraspinatus and Infras- pinatus	External rotation lag sign, Jobe's, Drop arm test, Neer
Teres minor	Hornblower's sign

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