



### How to Get Your CE Certificates

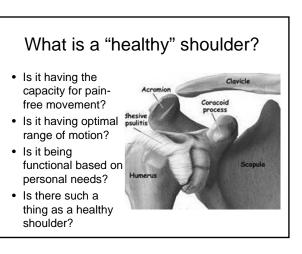
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### PLEASE NOTE:

- Remember to complete this webinar and print the certificate by December 31 of *this year.*
- Certificates with *next year's* date may not be accepted by your credentialing organization.

# REMINDER

Obtain medical clearance and physician's release prior to beginning an exercise program for clients with medical or orthopedic concerns



### **Shocking Shoulder Statistics**



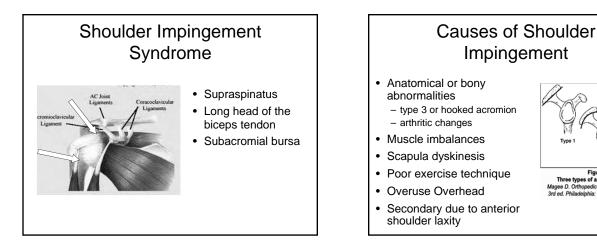
#### > 50% of adults over 60 have rotator cuff tears

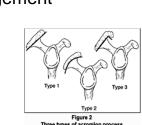
- Sher et al (1995)
- MRI's of 30 asymptomatic shoulders resulted in "no completely 'normal' rotator cuffs"
  - Miniaci et al (1995)

### **Common Shoulder Conditions**

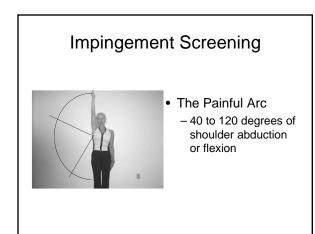
- Impingement
- Rotator Cuff Tears
- Labrum Tears
- Dislocation •
- · A-C Joint Separation

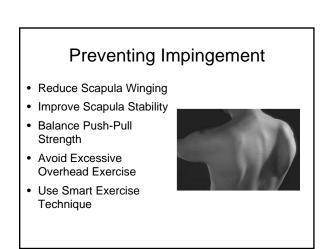


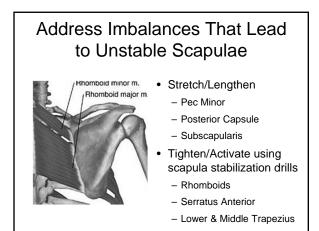




rs: 1997



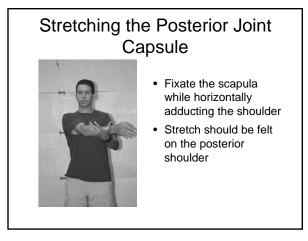




### Stretching Pectoralis Minor

- On a corner wall or door jam place the shoulder at 90/90 (abduction/external rotation)
- Rotate the torso away, increasing horizontal abduction
- Retract and tilt scapula posteriorly





### Stretching Subscapularis

 If client has limited external rotation OR internally rotated posture subscapularis may be tight

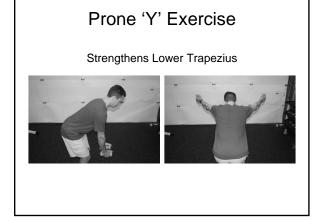


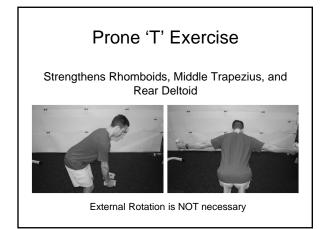


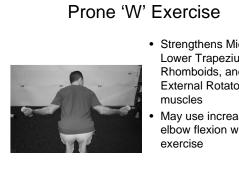
# Scapula Stabilization Drills

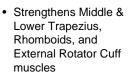
- - Serratus Anterior



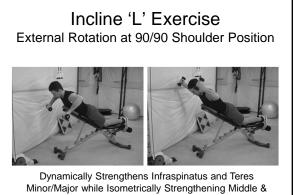




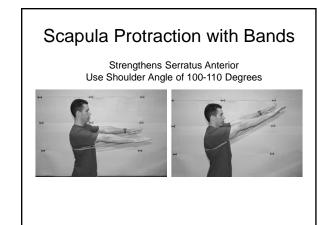


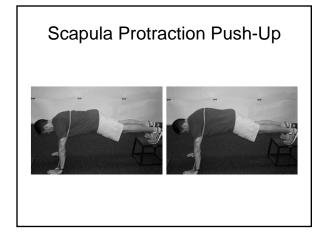


May use increased elbow flexion with this



Lower Trapezius and Rhomboids

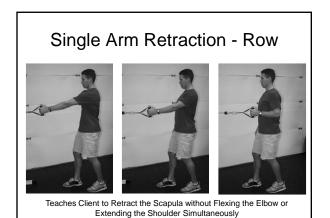




## **Rhythmic Stabilizations**



• With Client in Supine Lying Position Trainer Presses on Wrist in Various Directions to Challenge Reactive Stabilization of the Shoulder Girdle



# Use the Plane of Scaption (The plane of the scapula)

• 30 to 45 degrees anterior to the frontal plane







Behind the neck military press







### Rotator Cuff Strain / Tears

• Supraspinatus

Behind the

neck lat pull

- Infraspinatus
- Teres Minor
- Subscapula



## What Does the Cuff Do?



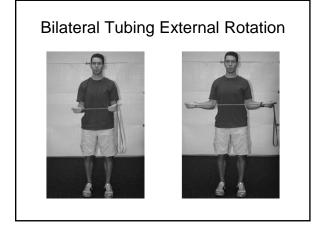
- Maintains the position ٠ of the humeral head against the glenoid during movement
- Balanced strength & flexibility is essential
- External Rotators are typically weakest link
- · Supraspinatus is most common to tear

### Side Lying DB External Rotation

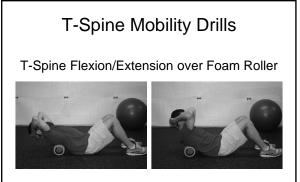
- Trains infraspinatus & teres minor, external rotators
- EMG Studies have shown this to be best exercise for the external rotators of the cuff

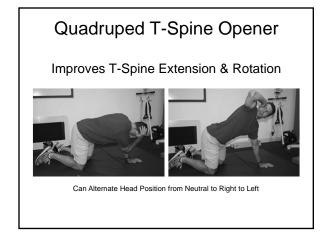
   Reinhold et al

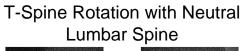






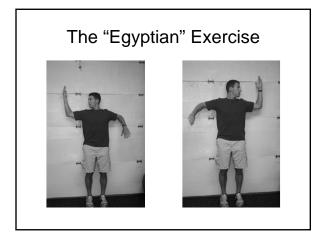


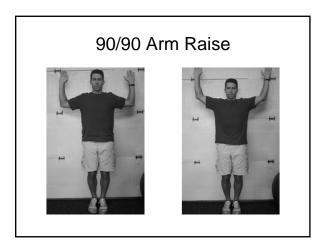


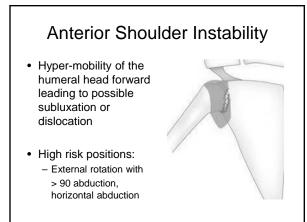


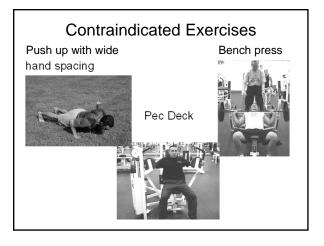


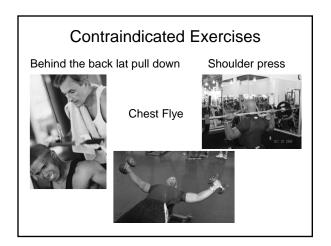


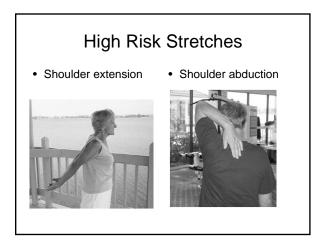








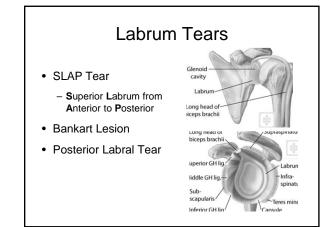




### Use a "Safety Block" for Pressing or Pushing

- A rolled up towel or ½ foam roll on or below the chest decreases range of motion w/out changing deceleration demands
- Forcing a stop before range of motion naturally terminates increases rotator cuff stress





#### Exercise Goals to Prevent Symptoms from Labrum Tears

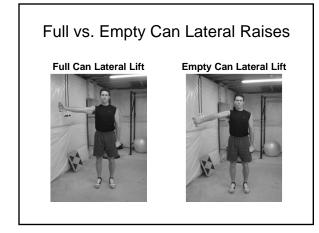
- Improve scapula stability
- Strengthen rotator cuff muscles

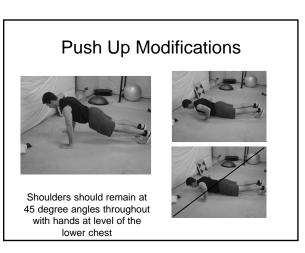


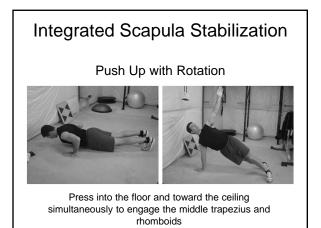
# Additional Tips & Modifications for Shoulder Injury Prevention

- Stick to DB's vs. Barbells
- Minimize Overhead Strengthening in Overhead Athletes
- Rotator Cuff warm-ups before all activities involving the shoulder









### Seated Horizontal Row



The horizontal pattern (i.e. high elbows and pronated grip) is essential to target the middle trapezius and counteract the internal rotation imbalance caused by tight latissimus dorsi and pectoralis major

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