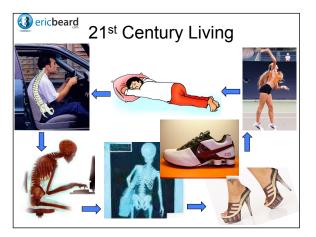




Presentation Overview

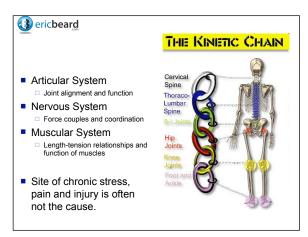
- Rationale for corrective exercise for the shoulder complex
- Anatomical review
- Discuss common impairments
- Practice movement assessments
- Present interventions to remedy movement impairments

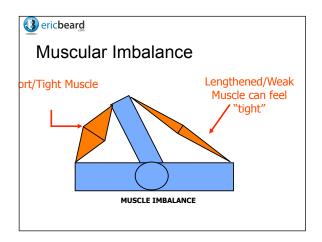


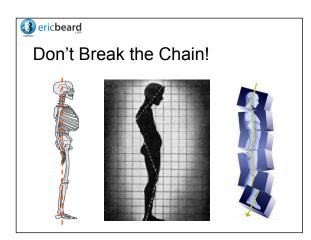


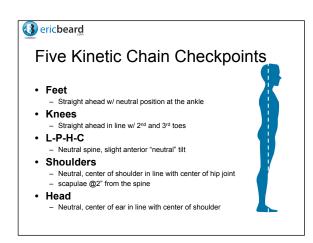
Anatomical Review

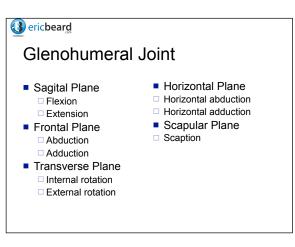
- Kinetic Chain
- Shoulder "Complex"
 - □Skeletal/articular
 - □ Muscular and Fascial Systems
 - □Passive
- Common Dysfunctions







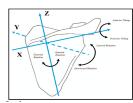


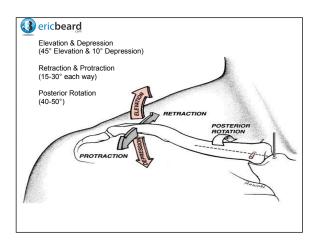


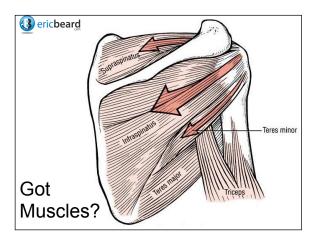


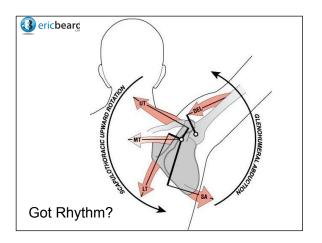
Scapulothoracic Joint

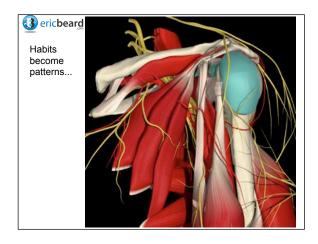
- Elevation
- Depression
- Protraction
- Retraction
- Upward rotation
- Downward rotation
- Abduction (Internal)
- Adduction (External)
- Anterior Tilting
- Posterior Tilting

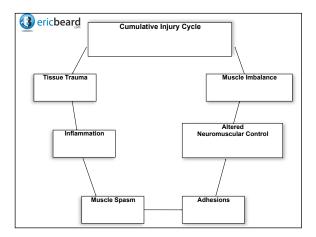














S.I.C.K. Scapulae

- S: Scapular malposition on the rib cage
- I: Inferior medial border winging from weak serratus anterior, middle and lower trapezius muscle
- C: Coracoid pain and malposition from the attachment of a tight Pectoralis minor muscle pulling on the coracoid
- K: Scapular dyskinesis from alterations in muscle recruitment patterns



Do You Have the G.I.R.D?

- G.I.R.D.-GHIR = less than 70 degrees
- It has been shown that this loss of IR predisposes throwers to shoulder injuries such as labral tears and rotator cuff tears in addition to increasing forces on the ulna collateral ligament



Assessments

- Static postural
 - □ Standing
 - □ Prone
 - □ Supine
- Passive Range of motion
- Active Range of Motion (Movement)
- Breathing
- Specific testing



Movement Assessments

- See a licensed professional if pain persists
- These techniques are designed to identify asymmetries and to record improvements in a corrective program



Impingement Test or Shoulder Crossover Test





Standing Shoulder Flexion Test

- Compensation of low back arching may indicate tightness in the lats
- Elbows bending may indicate primarily tightness in the pectoral complex
- Elevation of scapulae may indicate overactivity in the levator scapulae



The Rotation Test

- Joint movement; external rotation and internal rotation from 90 degrees of horizontal abduction
- External rotation places stretch on latissimus dorsi, distal and sternal portions of pectoralis major, pectoralis minor and subscapularis
- Internal rotation places stretch on posterior capsule, infraspinatus and teres minor



Self Care and Exercise

- Self Care and Exercise
 - □ Soft Tissue Work & SMR
 - ☐ Stretching and Joint Mobilization Techniques
 - □ Activation (Isometrics) and Active Isolated Strengthening
 - □ Integration (Strength Training) and Plyometrics



Program Design

- Frequency-how often
- Sets-group of repetitions
- Reps-one complete movement
- Tempo-pace/speed of repetition
- Rest-between sets
- Timing-before, after or on "off days"
- Minimum/maximum # of bouts per week
- Total Volume- sets x reps



Corrective Strategies

 Research supports the use of ischemic pressure (SMR), stretching and strengthening exercises for improved posture and function of muscles.



In Summary

21st century living creates dysfunction Dysfunction eventually drives injuries Use assessments to identify the root cause of dysfunction

Use results of assessments to sell your program and services to members and clients Retain clients, produce clients help members reach results!!!



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