The Shoulder and The Cuff: 100 years in 1 hour

BoulderCentre for Orthopedics Khemarin Seng, MD 303-449-2730







Tonight's Goals

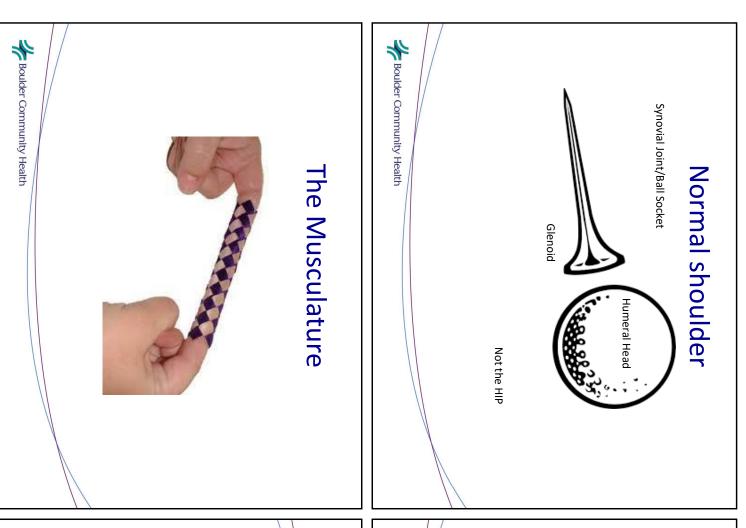
- Highlight Importance of the cuff
- Understand the Normal shoulder
- Diagnosing cuff disease
- Treatment strategies
- Sprinkle in some science
- Recognize the controversies
- Audience stories

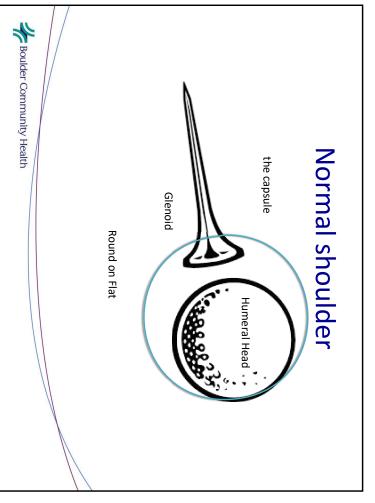


Why so excited?

- » 100 year ago. "Soft parts between the bones"
- » Incidence 40-60% between ages of 40-60
- » Affects work, play, and sleep









movement at joints.

Shoulder: coupled forces

- » Forward Flexion matches Extension
- » Abduction matches Adduction
- » External Rotation matches Internal Rotation
- » The cuff balances the shoulder
- » Keeps the Golf ball on the Tee



Boulder Community Health

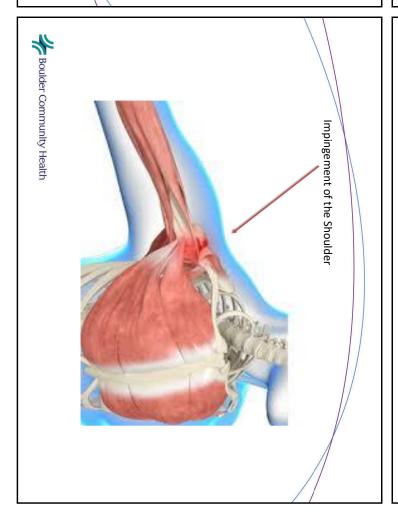
» Subscapularis » S.I.T.S. balance

Rotator Cuff function

- » Supraspinatus=abduction
- » Infraspinatus=external rotation
- » Teres Minor=external rotation
- » Subscapularis=internal rotation
- » S.I.T.S. balances the shoulder

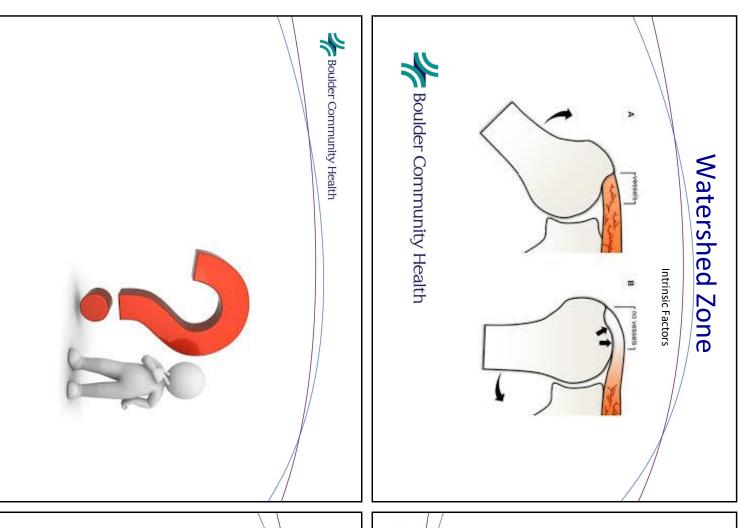


Boulder Community Health

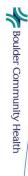


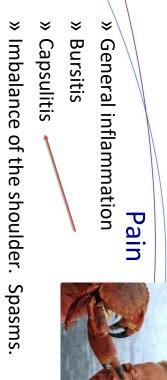
Causes of Cuff injury













on imaging

» 90% surgical success rates with 40% re-tears

» 40% of cuff tears can have NO symptoms





How do I know that I have a cuff tear?

How?

Boulder Community Health

History

- » Provider interview
- » Detailed story
- » When do you have pain
- » Where do you have pain
- » Age
- » Occupation
- » Sports
- » History of accumulated trauma

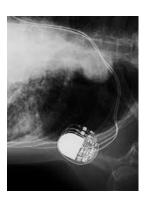
Physical examination

- » Postural exam
- » Muscle development
- » Shoulder examination
- » Provocative tests
- » Empty can, Jobe, Belly press, Bear hug, Lift off, Lag



lmaging

- » Xrays
- » Ultrasound
- » MRI
- » Needle scopes
- » CT arthrograms







- » Often Normal
- » Acromial spur









Boulder Community Health

NRI RI

- » Amazing images
- » Accurate
- » Comparable to Ultrasound



Boulder Community Health

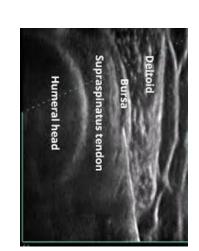


- » Detailed story
- » Thorough physical exam
- » Complete imaging
- » Diagnostic accuracy
- » I have a cuff tear

Now what?

Ultrasound

- » Gaining acceptance in United States
- » Popular in Europe
- » Comparable to MRI





As a patient...

- » Natural history of cuff tear
- » Partial or Full thickness? Severity?
- » Common interventions
- » Treatment outcomes
- » What would you do if this were your shoulder?
- » Am I affected by pain or dysfunction?

Boulder Community Health

Boulder Centre for Orthopedics

0

» S.A.N.E

Treatment

- » Tincture of time
- » Physical therapy
- » Injection- Steroids, PRP, Prolo, Stem cells
- » Surgery- smooth or fix
- » Revision surgery- re-fix, SCR, In-Space
- » Patient education and understanding



Boulder Community Health

Boulder Community Health

What to ask your provider

» Can I be in a sling for 6-8 weeks?

» Do I have 6 months to rehab?

» What are my goals? short, mid, long term

» Treat the pain or Treat the dysfunction

Treatment Strategies

