

More Exceptional Care, Still Exceptionally Close.

COMMON HIP AND KNEE PROBLEMS

Simon L. Amsdell MD Orthopaedic Surgery Warren, PA



My Background

- Oil City PA→
- Gannon University →
- West Virginia School of Medicine →
- Univ of Rochester Orthopaedic Surgery >
- Cleveland Clinic and Metro Health (Fellowship training in shoulder to hand surgery)
- Warren General



What we DO?

- Operative and non-operative management of musculoskeletal problems
 - Not just surgery
- Fractures/trauma (ED)
- Arthritis
- Nerve compression syndromes
- Sports medicine
- Pediatric ortho
- Deal mainly with the extremities
 - Also treat non-operative spine



Outline

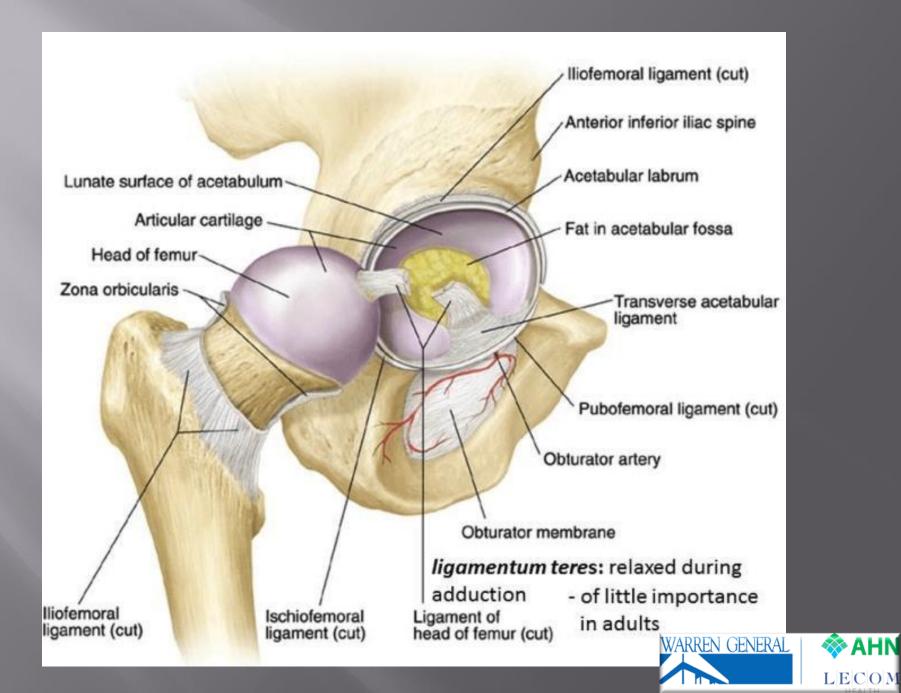
- Hip pathologies
 - Trauma/fractures
 - Bursitis
 - Arthritis
 - Lower back issues/sciatica
- Knee pathologies
 - Ligament injuries
 - Mensicus issues
 - Arthritis



Hip Anatomy

- Ball and socket joint
- Inherently stable
 - Majority from boney anatomy
 - Augmented by labrum/capsule
- Femoral head and acetabulum





Hip Fractures

- "hip" fractures can occur in multiple locations in proximal femur
 - acetabulum
 - Head
 - Neck
 - Intertrochanteric
 - Subtrochanteric
- Increasingly common with aging population
- Women>Men



Hip Fractures

- Most expensive fracture to treat
- Occur with high energy in the young and low energy in the old (fragility fracture)
- Have significant impact of mortality and quality of life
- 25-30% mortality rate at one year following hip fracture in elderly
 - Pre-operative function most predictive of post-op survival
- Fix almost all of them- there is no good way to "immobilize" hip and treat conservatively
- Goal is to fix/replace ASAP to permit early mobilization











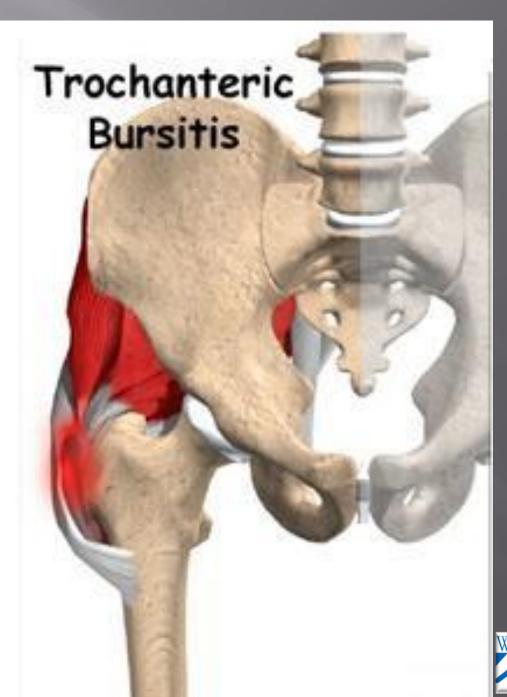




Trochanteric Bursitis

- Very common cause of <u>lateral</u> hip pain
- Inflammation of bursa overlying greater trochanter
- Majority of time improves with non-op care
 - NSAIDs
 - Corticosteroid injection
 - Stretches/PT
 - Time







Sciatic/Lower back issues

- Very common cause of posterior hip pain
- Radiating leg pain
- Numbness/weakness
- 80% will improve with treatment and time

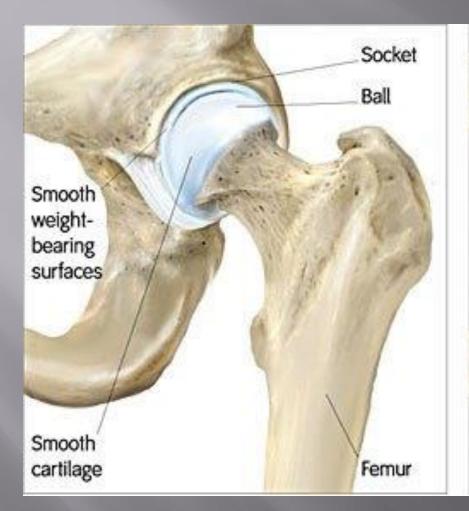




Hip Osteoarthritis

- "Degenerative disease of joints that causes progressive loss of articular cartilage"
- Probably caused by combination of genetics and "wear and tear"
- Females males
- Common in aging population
- Presentation
 - Progressive pain without injury
 - Usually located in groin
 - stiffness

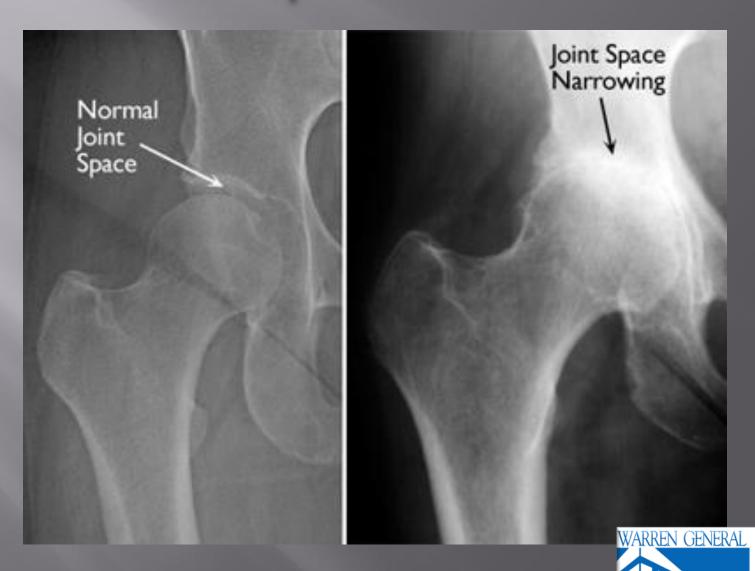








Hip Arthritis



♦ AHN

LECOM

Hip Arthritis Treatment

- NSAIDS
 - First line treatment for symptomatic arthritis
- Weight loss, activity modification
- Steroid injection
 - Usually done with image guidance
- AVOID narcotics
- Total Hip replacement
 - Gold standard treatment if failing conservative treatment
 - There is no role for partial hip replacements for arthritis



Weight Loss

- One of the non surgical treatment options for arthritis with the most scientific support
- □ Decreased weight=decreased load on joint → decrease symptoms → possibly slow progression of disease



My Joint Replacement Algorithm

- 1. Good candidate
 - Healthy (enough)
 - Appropriate age- > 50 or preferrable > 60
 - No significant obesity
 - Non smoker
- 2. Significant arthritis on xray
- 3. Failed all other treatment options
- 3/3 usually means a great outcome



Surgery – total hip replacement

Cuts



Implanted







Hip Replacement Risks

- Infection= disaster
 - < 1%
 - Treated with repeat surgery, possible implant removal
 - Smoking, obesity increase risk
- Dislocation
 - 1% if surgery performed well
 - 6 weeks of precautions after surgery to prevent
 - Higher in patients with neurologic diseases
 (Parkinsons), poor cognition, drug/alcohol abuse



Hip Replacement Risks

- Fracture around implant
 - Intra-op- 2-3%
 - Post-op- 0.1%



Hip Replacement

- If performed in the right patient for the right reasons, hip replacements are LIFE CHANGING
- Last around 20 years (maybe more)



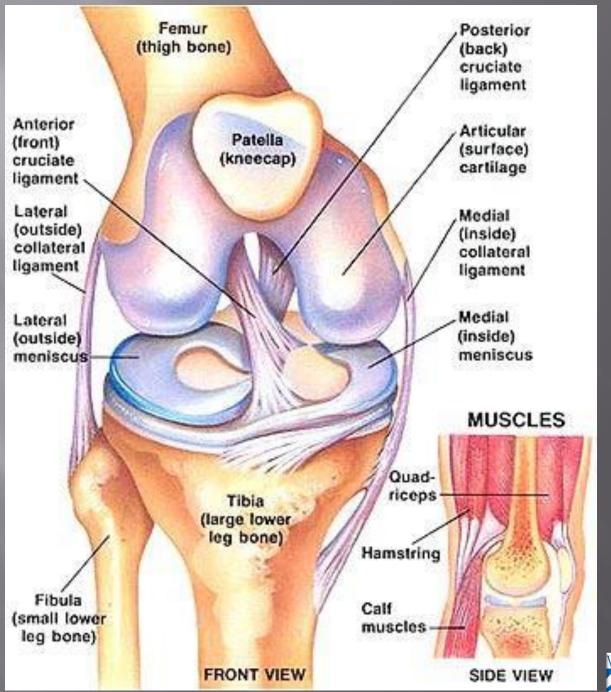


AHN
L|E|C|O|M

Knee Anatomy

- Joint made up of articulations between femur, tibia, patella
- Main ligaments of the knee include cruciate (ACL, PCL) and collateral (MCL, LCL) ligaments
- Common injuries can include ligament injuries, cartilage damage or meniscus tears



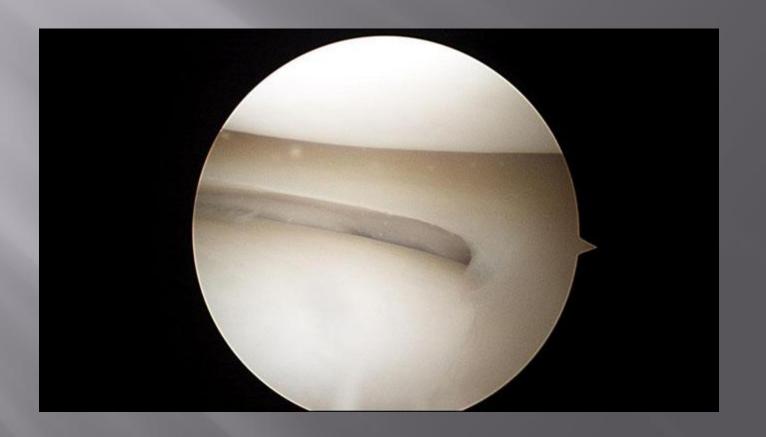




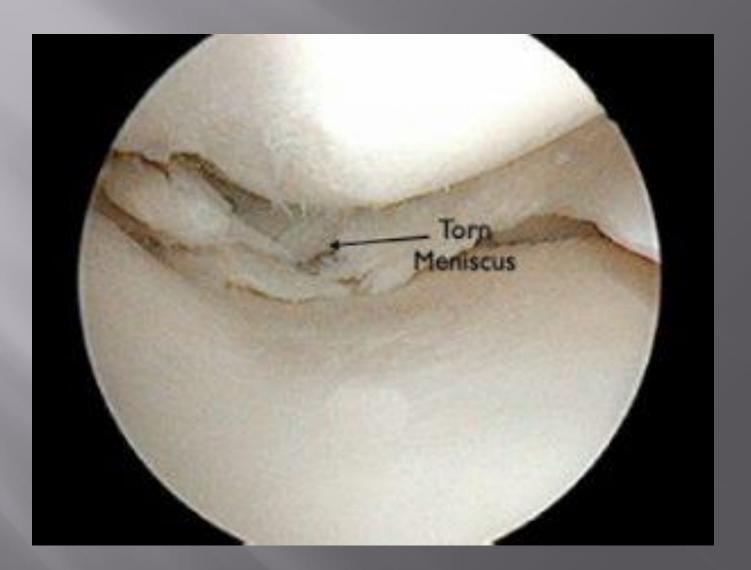
Meniscus Tears

- Very common
- Can be seen in healthy knees with traumatic injury or may be associated with arthritis
- Symptoms can include pain along joint lines, clicking, locking or mechanical symptoms
- Common treatments include conservative care with rehab, injections vs arthroscopic surgery (debridement vs repair)











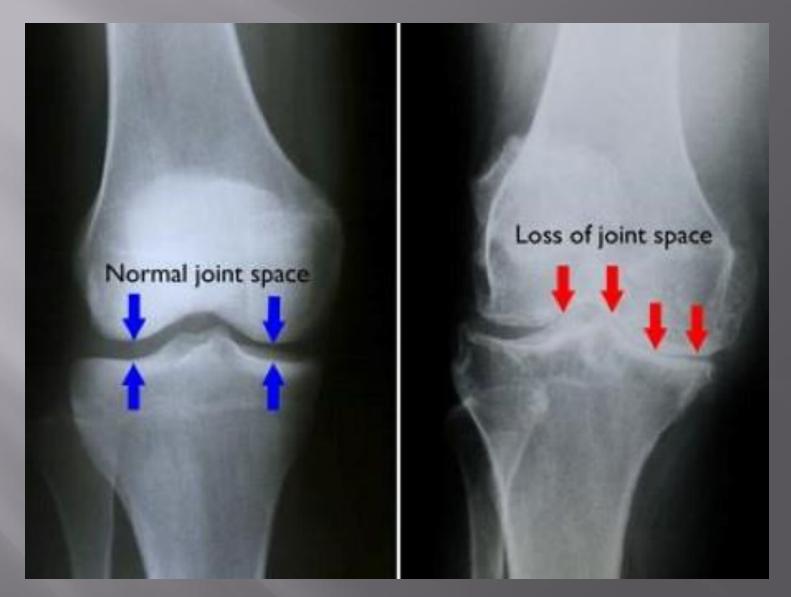




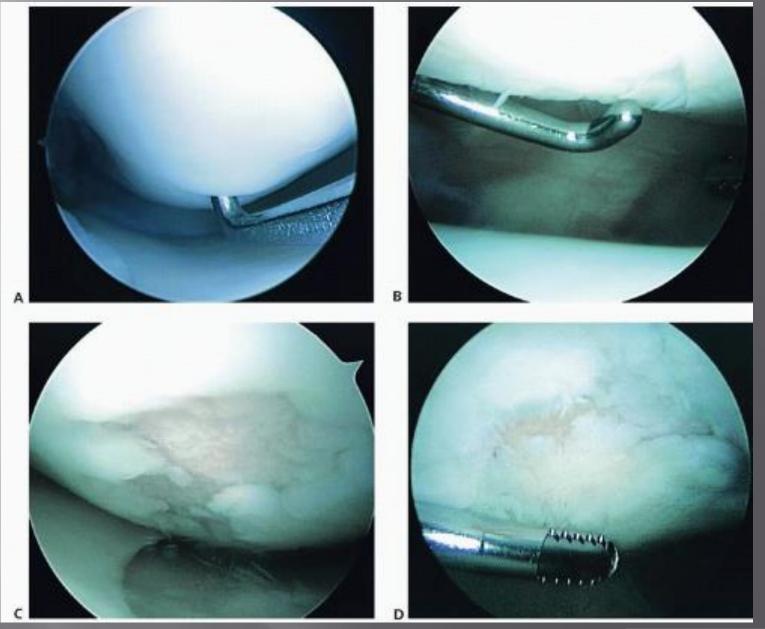
Knee Osteoarthritis

- More common than hip arthritis
- Similar treatment strategies
 - NSAIDs
 - Weight loss/activity modifications
 - Injections
 - Also can consider viscosupplementation shots
 - AVOID narcotics
 - Partial vs total knee replacement
 - Knee arthroscopy has limited role in treatment for arthritis
 - The more advanced arthritis=shorter duration of symptom relief









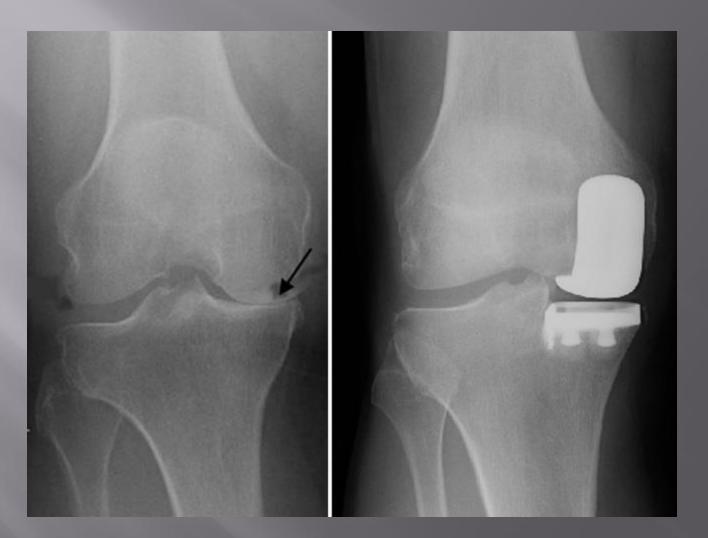














Partial Knee Replacement

- •Only appropriate for a minority of patients with arthritis (5-10%)
- Criteria
 - Arthritis in only one compartment
 - Near normal ROM
 - Near normal alignment
 - Intact ligaments
 - Lack of pain in other compartments
 - Concern is failure and need for conversion to total knee







Total knee replacement



Degenerative knee

Cuts

Implant components

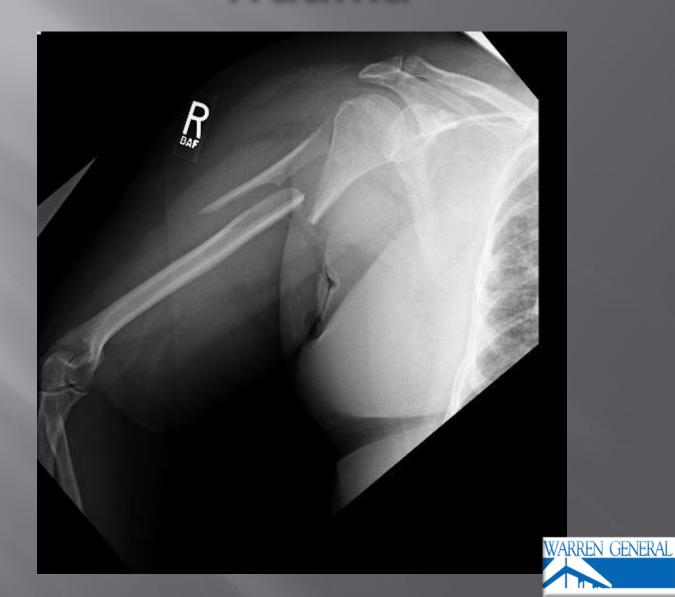
Implanted

Total Knee Risks

- Infection (1%)= disaster, need for component removal
- Nerve/vessel injury- less than 1%, very uncommon
- Improper balancing/ligament laxity
- Stiffness (5%)
- Continued pain (up to 10%)- more common than in total hips
 - Pain tolerance
 - Muscle/tendon inflammation
 - design
- A well performed knee replacement in the right patient has excellent and life changing results



Trauma



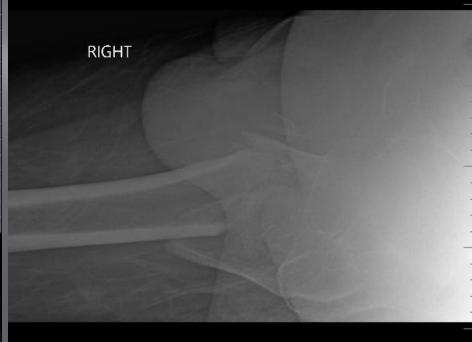






Trauma











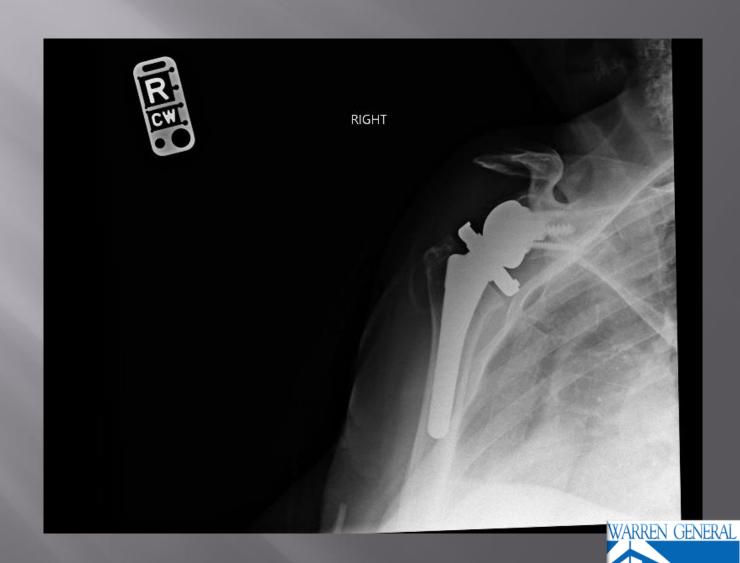


Rotator Cuff Tear Arthropathy



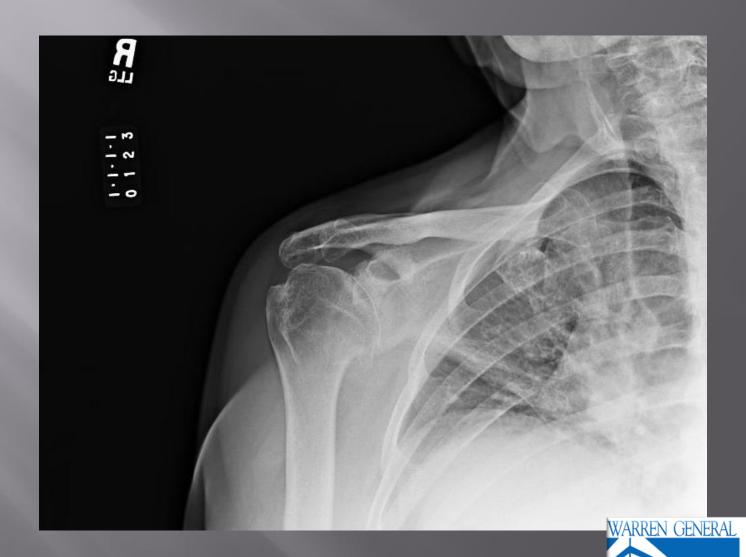
** ♦** AHN

LECOM





Shoulder Arthritis

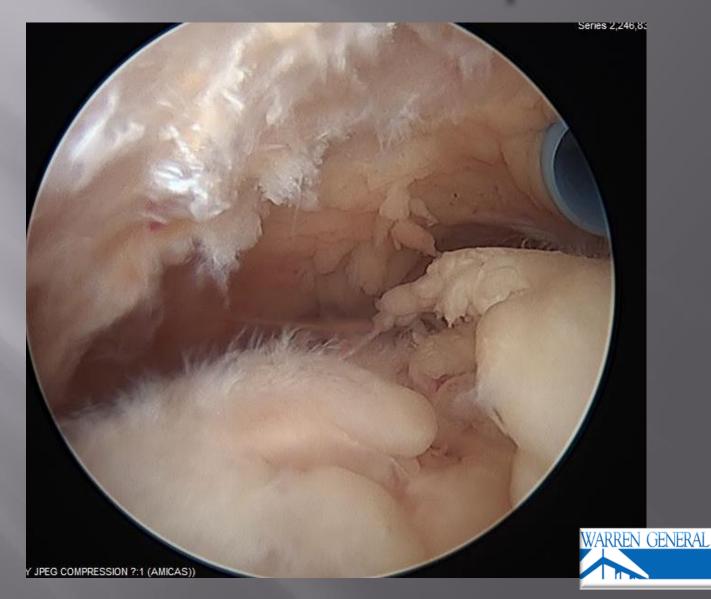






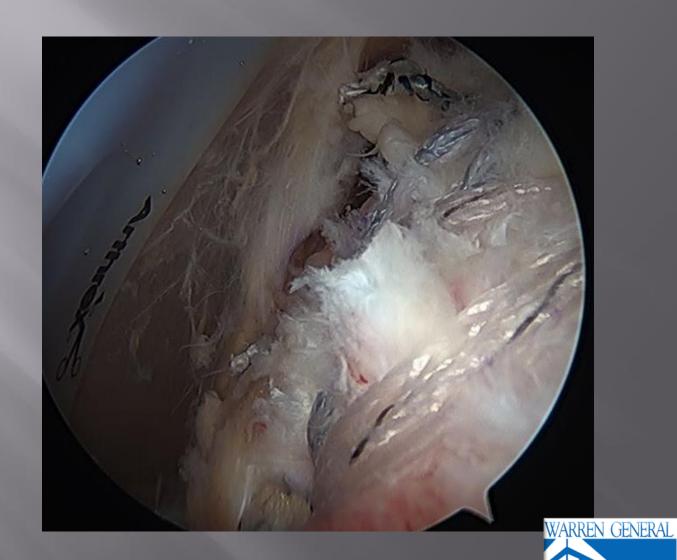


Rotator Cuff Repair



** ♦** AHN

LECOM



♦AHN

LECOM

Warren General Dept of Surgery

- Current chief
- Low infection rate
- Excellent staff/resources
- Excellent Care with good proximity to home
- Keep business in town



Questions

