

Evaluation and Management of Knee and Shoulder Pain

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Please check where applicable and sign below. Provide additional pages as necessary. Name of CME Activity: ACOFP 53rd Annual Convention and Scientific Seminars

Dates and Location of CME Activity: April 6-9, 2016, The San Juan Puerto Rico Convention Center

Your presentation: Thursday, April 7, 2016 from 1:00pm-3:00pm: Assessment, Imaging and Treatn

Orthopedics	ro.oopin. Assessment, imaging and Trea	tment of Office
Name of Faculty/Moderator:	**************************************	
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Evaluation and management of Knee and Shoulder pain Andrew Ferris DO

Knee pain History Chronic vs. Acute Mechanism of injury Evaluation Intra vs. Extra-articular problem Imaging X-ray MRI Treatment

History Chronic vs. Acute Mechanism of injury Quality and location of pain Aggravating activities Mechanical symptoms

Acute vs. Chronic Acute Knee Pain Injury? Yes Ligament, patellar subluxation/dislocation, meniscus, fracture, micro-fracture No Inflammatory arthropathies, meniscus, septic arthritis, or OA and PFS, but if these are acute they are usually associated to recent activity

	Acı	ute \	/s. C	hrc	onic	
Chronic	knee pain					
5 Childre	n and young adults					
, Pate	la-Femoral Syndrome					
5 Tend	onitis/Bursitis/Apophysiti	s				
» Plica	syndrome					
s Inflar	nmatory arthritis					
5 Oste	ochondritis dissecans					
5 Older a	dults					
, Oste	parthritis					
, Pate	la-Femoral Syndrome					
5 Inflar	nmatory arthritis					
s SPO	NK					
Tend	onitis/Bursitis					

Mechanism of injury Direct blow Twisting Acceleration deceleration Did you hear a "pop" Did the knee swell quickly could you put wait on your knee

Quality and location of pain Quality of pain important in differentiating OA or medical origin Location Anterior Jointline

Aggravating activities

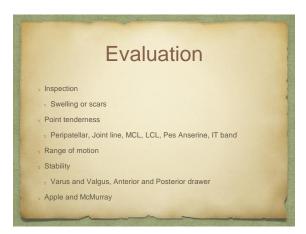
- Pain with weight bearing vs. rest
- » Pain going up or down stairs or a slope
- Morning pain

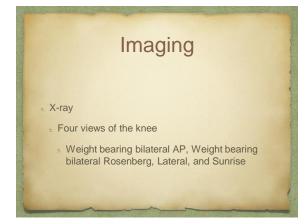
Radiating

- Start up pain
- do you sleep with a pillow between your knees

Mechanical symptoms

- Catching
- Locking
- Instability







MRI Mho needs an MRI Patients with significant mechanical symptoms with exam convincing of meniscal tear without significant degenerative joint disease on x-ray.

- Patient with mechanism of injury and exam consistent with ACL, PCL, LCL injury
- Patient with x-ray showing osteochondral lesion

MRI

- Who should not get an MRI
- Patients with advanced degenerative joint disease
- Acutely injured patient who we can not exam thoroughly due to pain and guarding
- Acute grade 1 and 2 MCL injuries

Roberts et. al. J Bone Joint Surg Am, 2015 May 06

Compared MRIs ordered by PCP and Orthopedic surgeons. Finding showed while each group had similar rates at which MRIs were ordered, those ordered by the orthopedist resulted in more appropriate interventions for patients with symptoms and findings amenable to surgical intervention.



Treatment Vast majority of patients presenting with knee pain will be nonsurgical in nature Most common knee complaint seen in my office are anterior knee pain and osteoarthritis

Patella-Femoral Syndrome Most common knee complaint in the outpatient setting Mainstay of treatment is physical therapy 75%-85% improve with conservative treatment little role for NSAIDs Referral to orthopedics with 6-12 months of treatment without improvement

Osteoarthritis Multi faceted approach Exercise, Weight loss and OTC meds Rx NSAIDs Physical therapy Corticosteroid injections Hyaluronic acid injections Off load bracing Surgery

Tendonitis/bursitis Activity Modification NSAIDs Physical therapy Corticosteroid injections

Gout vs. Septic arthritis Acute onset of pain with significant effusion and pain on ROM Joint aspiration with cell count with diff. and crystals, and cultures cell count >50,000 without crystals is septic arthritis

Shoulder pain
History
5 Chronic vs. Acute
Mechanism of injury
Evaluation
OA, Labrum, Biceps, Rotator Cuff, AC joint or Neck
Imaging
s X-ray
» MRI
Treatment

History Chronic vs. Acute Mechanism of injury Quality and location of pain Aggravating activities Mechanical symptoms

Acute vs. Chronic Acute Shoulder Pain Injury? Yes Labrum, SLAP, Rotator cuff No Subacromial bursitis, Adhesive capsulitis, Inflammatory arthropathies, Septic arthritis,

Acute vs. Chronic Chronic Subacromial impingement Glenohumeral Osteoarthritis Rotator cuff tear AC joint arthritis Multidirection instability

Mechanism of injury Fall on out stretched hand Forced abduction Dislocation Seizure

	Quality and location of Pain			
0	Sharp with activityDull at restNight pain			
Location, Anterior, Mid arm, Scapular				

Aggravating activities Above shoulder level reaching

- Overhand throwing
- Sleeping on side of affected shoulder
- Reaching behind back

Mechanical Symptoms Locking or catching Subluxation Crepitus

Evaluation

- Range of motion, both active and passive
- Strength testing
- Impingement signs
- Point tenderness at AC joint, Codman's point, or Bicipital groove
- Provocative test; Speed, Yergason, O'Brien, Apprehension relocation, Load shift







Treatment Injections subacromial, biceps, AC joint, GH joint Strengthening Physical therapy or home excises NSAIDS MRI

When to get an MRI Acute injury in young patient with either profound weakness not caused by pain or instability Chronic pain and weakness not responding to treatment MRI should be used to determine decision for surgery

