

Patellofemoral Disorders

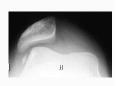
- One of the most common problems seen in the knee surgeons office
- · They remain oftentimes difficult and frustrating to manage
- Anterior knee pain is very common in the workplace setting

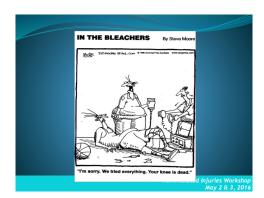
Classification of Patellofemoral Pathology

- TRAUMA
- direct impact (e.g. dashboard knee)
- Fracture
- Tendons rupture (quadriceps, patellar tendon)
- DISLOCATION MALALIGNMENT
- patellar compres
 OCD
- Patellar instability
- ARTICULAR CARTILAGE DISORDERS INCLUDING ARTHRITIS
- TENDONITIS, APOPHYSITIS

Patellar Dislocation: Define

- Patella Completely leaves the trochlear groove
- It dislocates laterally
- it can be traumatic as a result of an acute injury
- it can also be relatively
- atraumatic in someone with congenital factors
- it can be partial or a SUBLUXATION





ACUTE TRAUMATIC PATELLAR DISLOCATION (APD)

- Can be as a result of a twisting injury such as change of direction, similar to ACL tear
- · Can be a result of direct impact
- Acute swelling in knee from bleeding
- (HEMARTHROSIS)
- · Pain usually more medial



tearing of medial restraints

Acute traumatic hemarthrosis without fracture

- Knee swelled within hours after injury (has to be blood)
- ACL most common
- PATELLAR DISLOCATION second most common
- · Other causes:Osteochondral fracture not seen on Xray, deep MCL tears, PCL, peripheral meniscal detachments
- · can easily be confused with MCL or other injuries

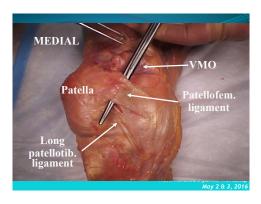
Acute Patellar Dislocation

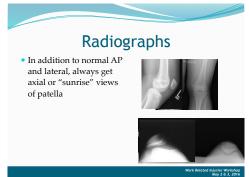
- Be suspicious, may be confused with MCL sprain, beware associated injuries
- Hemarthrosis/medial epicondyle and/or medial patellar border tenderness
- Suspect displaced osteochondral damage
- X-rays, MRI

What's typically injured?

- Medial patellofemoral ligament
- Medial patellar avulsion (margin) fracture
- Non-displaced articular
- Displaced articular injury

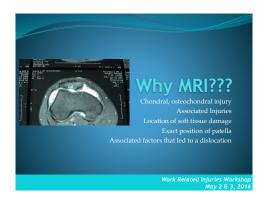


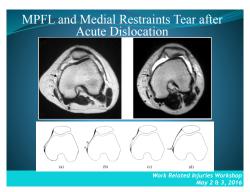


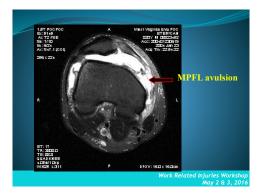


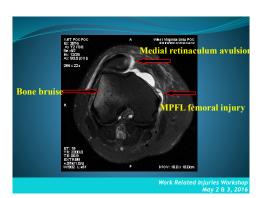
Osteochondral injury • Patellar bone bruise/avulsion fx 28-41%

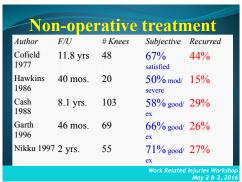
- Contusion lat femoral condyle 31-100%
- MY opinion:
 - ALWAYS GET MRI after acute traumatic dislocation











Highest recurrence rates

- Young, skeletally immature patients
- Young females
- Occurs with minimal trauma
- Patients with history of instability in other knee
- Predisposing factors: patella alta, trochlear dysplasia, bony malalignment
- Not as high in middle aged work place injury, but still significant



























