Knee Injuries

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Clinical Picture Complications Treatment

Incidence

Trauma

Definition

Associated Injuries

Bone Nerve Muscle Deformity



Medial Collateral Ligament Injury

Forced Abduction of the Knee Ligament Injuries; sprain or Tear Sprain:

Pain and Tenderness over the ligament Abduction Stress (Valgus Stress Test) -> Pain over Medial joint Line

Medial Collateral Ligament Injury

Tear: Haemarthrosis Abduction "Valgus" Stress test: Pain and "Opening" of joint line.

Lateral Collateral Ligament Injury

Forced Adduction of Knee Sprain: Pain and Tenderness over Lateral Ligament Adduction "Varus" stress Test Pain over Lateral joint Line

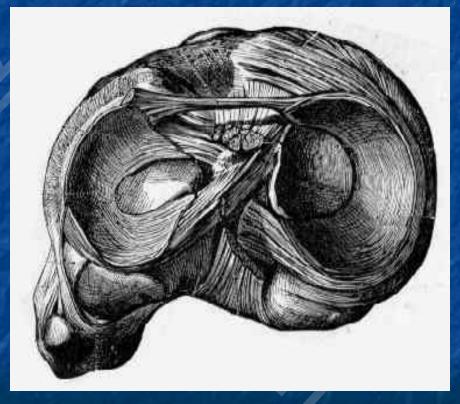
Lateral Collateral Ligament Injury

Tear: Haemarthrosis Adduction "Varus" Stress Test Opening of joint line

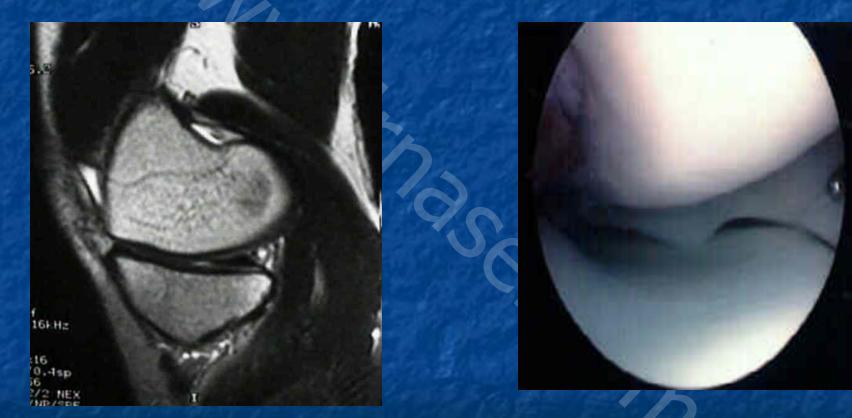
Collateral Ligament Injuries

Treatment: Sprain: Immobilization for 3wks, + Physiotherapy Tear: Immobilization 4-6wks Surgical Repair: MCL : Especially if high performance athletes.

Fibrocartilage Cresentic in shape Stress Dissipation Shock absorber



Trauma: Rotatory 'Twisting" Injury with knee semi flexed, crushing menisci between femur and tibia
Football players
Different types of tears



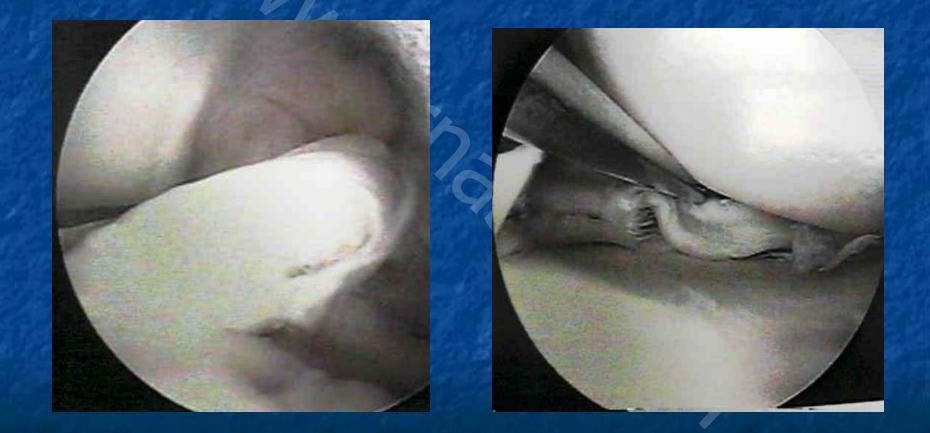
MRI

Arthroscopic www.drnasef.com

-Pain and Tenderness over respective joint line

-Haemarthrosis, or effusion

-Locking of knee, interposition of torn part of meniscus in between femur and tibia, especially if Bucket handle tear



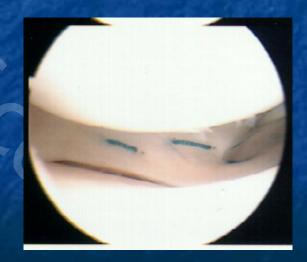
Clinical examination: -Muscle "quadriceps" wasting -Pain, or click over respective joint line on performing diagnostic McMurray's Test Taking involved knee from extension to flexion with medial or lateral rotation

Treatment: Partial Menisectomy Meniscal Repair



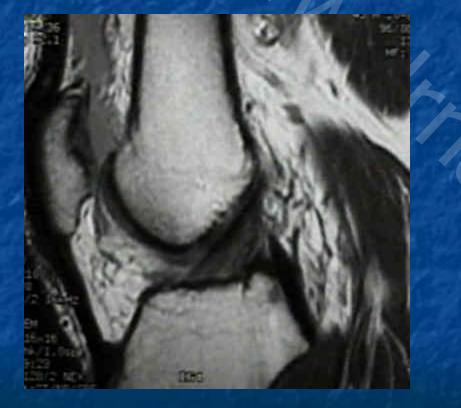






Cruciate Ligament Injuries Intraarticular Extrasynovial Avascular Primary restraints to Anterior or Posterior Tibial Subluxation

Cruciate Ligament Injuries





From Medial Surface of Lateral Femoral Condyle to tibial PlateauPrimary restraint against excess anterior tibial translation

Trauma: Hyperextension of Knee joint Abduction and internal rotation of semi flexed knee Football Players

Pain and Haemarthrosis Instability Examination: Anterior Drawer test positive Lachman test





Treatment: Reconstruction

Open

Arthroscopic



Grafts: BPTB ST &G Quadriceps

Synthetic



Medial Femoral Condyle to upper and posterior part of tibia

Primary restraint against posterior subluxation of tibia

Trauma: Dashboard injury

Pain, HaemarthrosisPosterior drawer test positiveUsually avulsed with a piece of bone (insertion)Less common injury

