Monterey Peninsula Orthopaedic & Sports Medicine Institute





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Sports Injuries - Outline

ζ Sports Injuries - an overview
 ψWhen to see the doctor
 ψTreatment options



Sports Injuries - Outline

Common Sports Related Injuries WAnkle Sprain vPlantar Fasciitis **w**Tennis Elbow **WACL Injury & meniscus tear**



Sports Injuries - Outline

vStress fractures

vOveruse Injuries

YShoulder rotator cuff tear

vSurgical options



Who is an orthopaedic surgeon?

 A Medical Doctor with extensive training in helping you keep your bones, joints, ligaments, muscles, tendons, cartilage and spine in good working order



Educating an Orthopaedic Surgeon

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- ζ College
- **ζ** Medical School
- ζ Internship
- ζ General Surgical Residency 1
- ζ Orthopaedic Surgical Residency 4
- **ζ** Years in Private Practice 15





Who is an orthopaedic surgeon?

ζ Greatest knowledge of wide range of conditions and treatment options available

ζ Greatest experience in treating musculoskeletal health





ζ Musculoskeletal conditions affect hundreds of millions of people

ζ \$254 billion per year spent



Acute vs. Overuse Injuries

ζ Acute - sudden trauma such as sprains, strains, bruises & fractures

ζ Overuse - series of repeated small injuries



When to See the Doctor

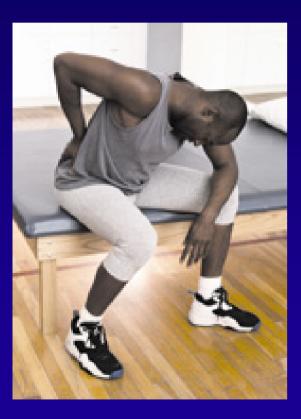
ζ Decreased ability to play

ζ Visible deformity

 ζ Severe pain



Boomeritis



ζ 2009 1.5 million sports related injuries in the U.S.

ζ \$18 *Billion* per year



Boomeritis





When to See the Doctor

Before you start an exercise or fitness program, talk to your doctor



Preventing Sports Injuries



ζ Skilled instruction

ζ Wear safety gear!





Stretching

Warm- up: ζ Marching

ζ Walk in place

ζ Take a warm shower

ζ Mimic the sport you are about to do

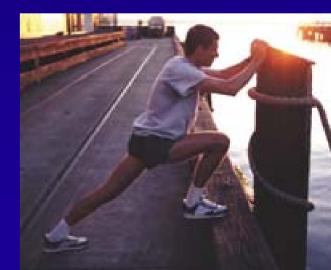




ζ You should NOT feel pain

ζ Hold stretch 30 seconds

ζ Relax into the stretch



Sports Injuries Prevention & Treatment







ζ R.I.C.E.

 ζ Alter or stop sports activities

ζ Physical therapy & medication

ζ Surgery may be warranted



Sports Injuries

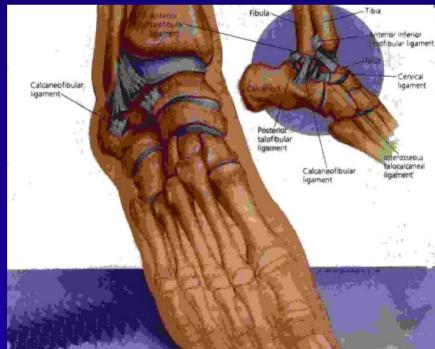
Common Sports Injuries



Ankle Sprain

ζ Ligament injury

ζ Ankle pain, tenderness, swelling





Ankle Sprain

ζ R.I.C.E.

ζ Rehabilitation

ψROM

ψStrengthening

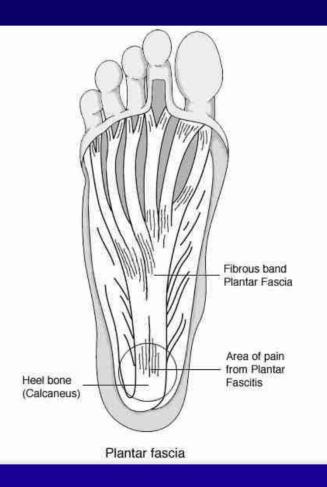
ψFlexibility





ζ Microtears of plantar fascia

ζ Painful heel





ζ Tape heel, arch

ζ Stretch

wAgainst wall

ψOn a step

ζ Heel cup, horseshoe pad



ζ Warm up well before stretching

ζ Ice heel, 20-30 minutes

ζ Anti-inflammatories

ζ Night splints



ζ Wear good, supporting shoes

ζ Arch support may help

ζ Avoid activities that cause heel pain



Tennis Elbow

Lateral epicondyle







Tennis Elbow

ζ Warm up, stretch before play

ζ Correct, maintained equipment

ζ Condition beforehand

ζ Evaluate play techniques to minimize irritation



ACL Injuries

ζ Twisting injury to knee

ζ Non-contact injury

ζ Landing on straight leg

ζ Making abrupt stops





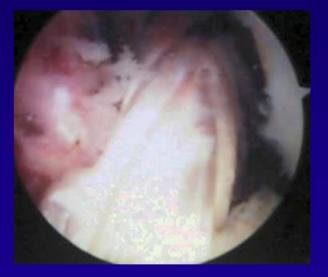
Normal ACL

Chronic ACL tear

Reconstructed ACL











Meniscus Tear



Normal meniscus



Torn meniscus



Stress Fractures

ζ Imbalance bone loss vs. replacement

ζ "Micro-cracks"

ζ Pain





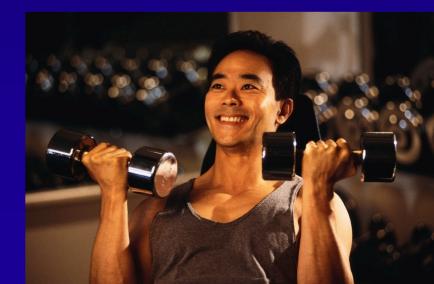
Overuse Injuries

Training errors

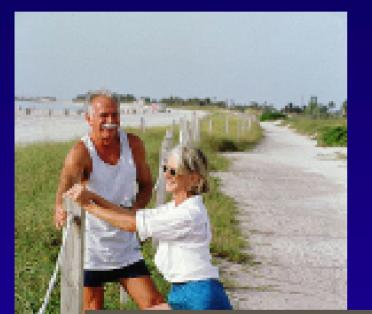


Less-than-optimal environment

Improper technique



Overuse Injuries



<u>10% Rule</u> Don't Increase Activity by More Than 10% Per Week

Sports Injuries Prevention & Treatment





Asking Questions About Surgery

- ζWhy?
- **ζ** Alternatives
- ζ Benefits and for how long?



Asking Questions About Surgery

- ζ Risks and any other options?
- ζ What is procedure called?
- ζ How many have you done?
- ζ How do you do the procedure?
- ζ Results?



Asking Questions About Surgery

ζ Duration of recovery?

ζ Assistance at home and how long?

ζ Disability after surgery?

ζ Physical therapy?

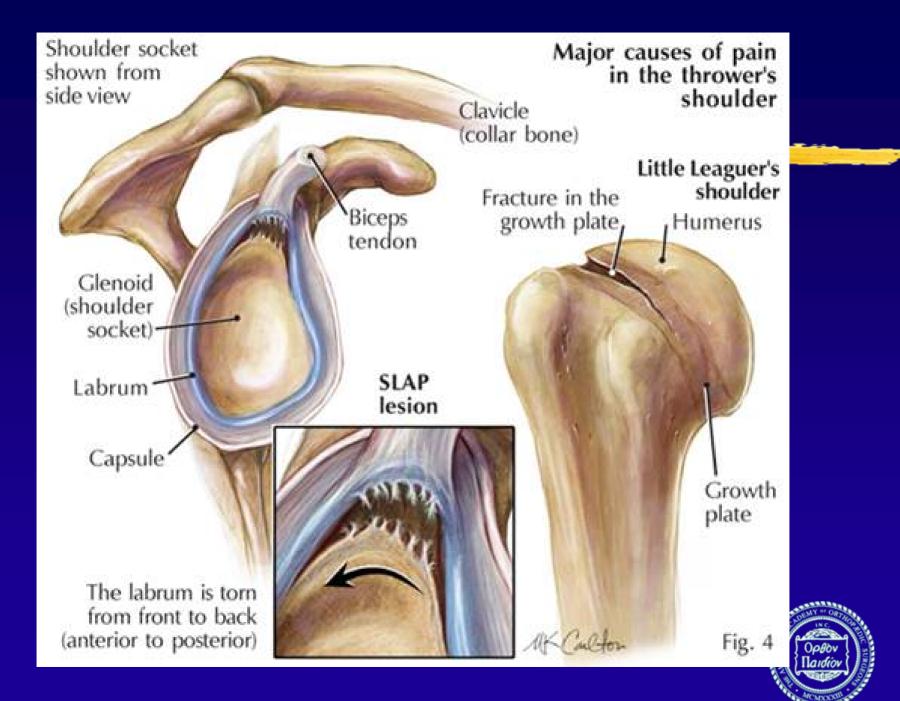
ζ Return to normal activity?





Stabilizers of the shoulder joint Static stabilizers consist of the shoulder capsule and the labrum. Capsule -Labrum Dynamic stabilizers are the muscles surrounding the shoulder. MK Calton Fig. 3

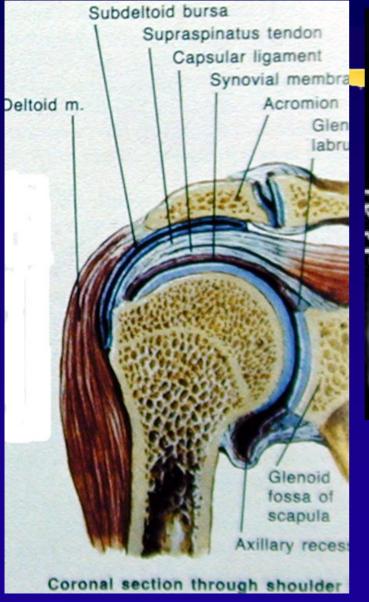




Rotator Cuff Tear Geometry Large - retracted



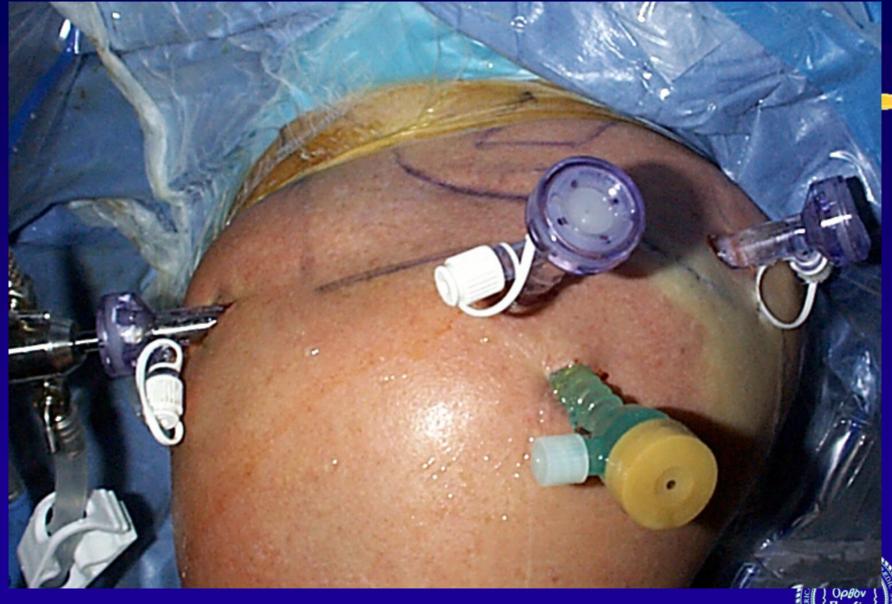




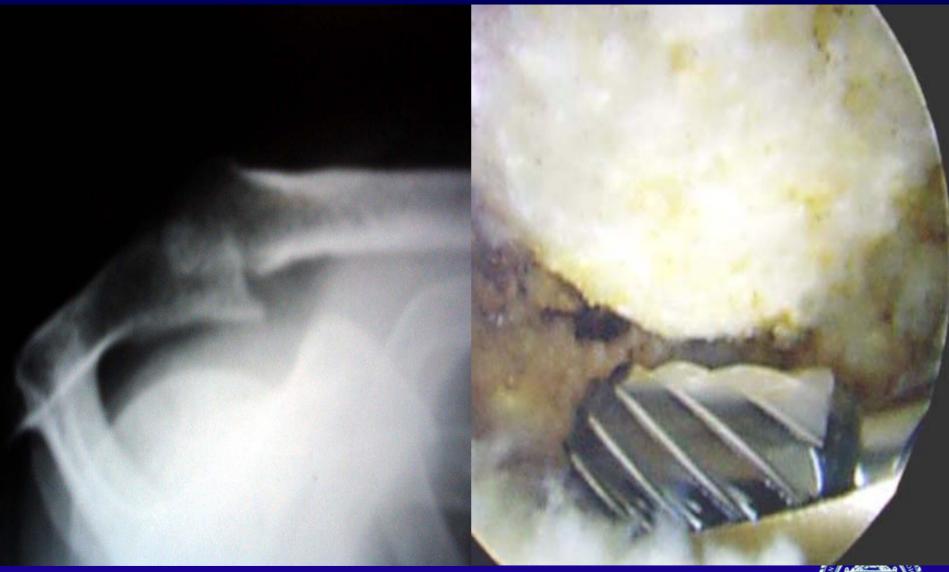




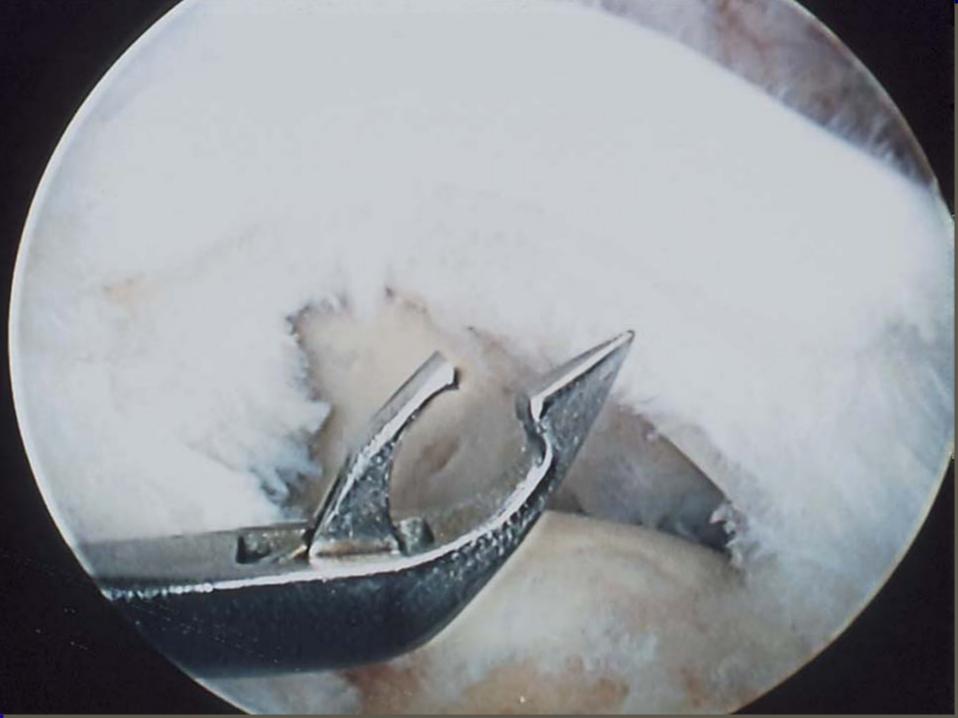


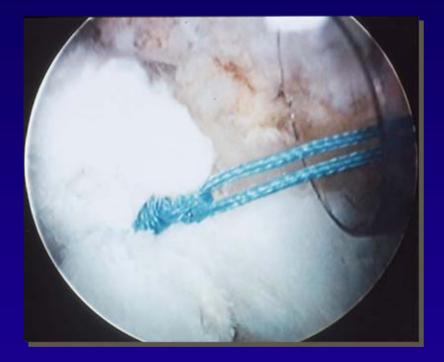


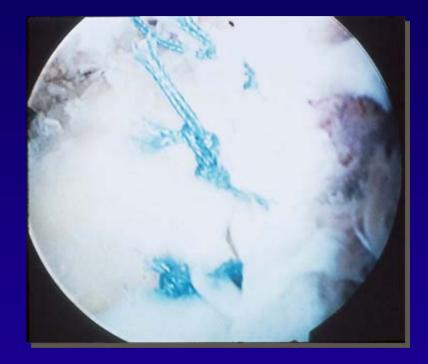
















Sports Injuries

Sports are fun!

The goal is a pain and injury free balanced fitness program for all ages.



Sports Injuries Prevention & Treatment

ΨThank you for your attention



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