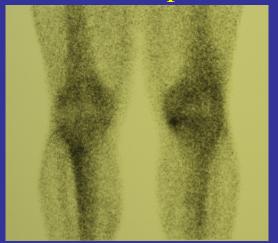
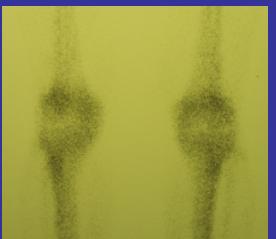
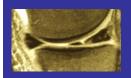
The PREVENTION of Early OA of the Knee Following Meniscal or ACL Surgery is Possible by a Achievement (+ Maintenance) of Joint Homeostay

The Achievement (+ Maintenance) of Joint Homeostasis
Pre-Op
Post-Op











Restoration of Osseous Homeostasis 20 M P/O Partial MM Without the Development of OA

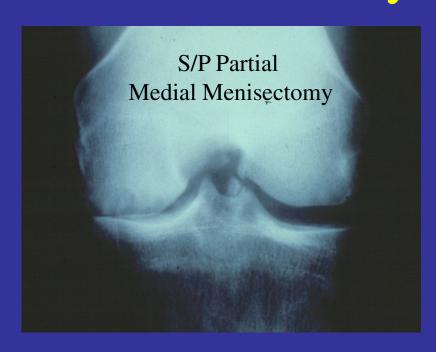


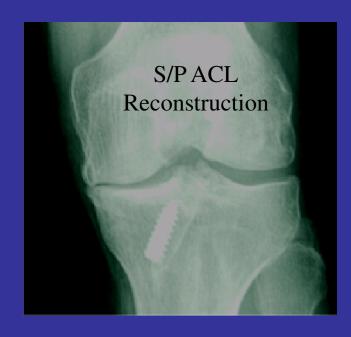


Scott F Dye MD
Davies Campus
CalPacificMedCenter
Ass.Clin.Prof. UCSF



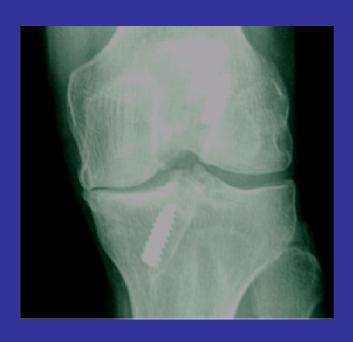
The Development of Early Knee Arthritis Following Medial Meniscal Or ACL Injury and Surgery Is Extremely Common





The Human Knee is An Excellent Model for Post-Traumatic OA (PTOA)

E.G.:The Rate of Early OA Following ACL Reconstruction is 50% at 10yrs P/O



Example

Pre-Op



P/O ACL Reconstruction

"Accelerated" Rehab
Patient was told
He was "Fixed"
OK to Return to
Pivoting sports
Returned to
Soccer at 4 m P/O

Advanced DJD 9 yrs P/O ACL



Age 23

Age 32

Complaints of Recurrent soreness and Mild effusions with Soccer were Dismissed!

Early Reports of the More "Anatomically Placed, Double-Bundle"

ACL Reconstructive Procedures

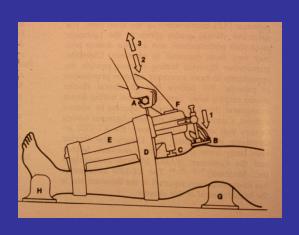
Using Current Post-Op Rehab Protocols

Show

NO DIMINISHMENT

In Rates of Early Osteoarthritis
Seon J-K,et al." Double-Bundle ACLR Cannot
Prevent Osteoarthritis Compared with Single-Bundle
Technique" AOSSM Annual Meeting Baltimore 2012

The Problem: Belief in a PURE Structural/Biomechanical Paradigm of Joint Function





ASSUMPTION:

Restoration of Measurable Structural/Biomechanical Characteristics

Restoration of Knee Function

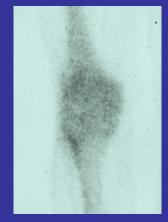
There is a Different Emerging Orthopaedic & M/S Paradigm: That Views Joints as Living, Metabolically Active **Systems of Billions of Cells** Each Tissue (Volume of Cells) Has its' own **Normal Metabolic Characteristics** TISSUE HOMEOSTASIS

Tissue Homeostasis:

The complex biochemical/metabolic Processes that maintain the normal Physiological characteristics of VOLUMES of living cells

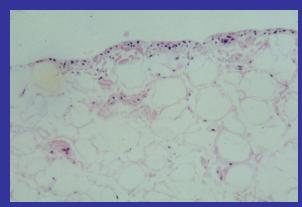


Osseous Homeostasis



Normal Bone Scan

Soft Tissue Homeostasis



Normal Synovium and Fat Pad Tissue

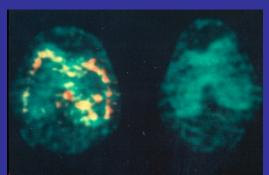
Loss of Tissue Homeostasis

Initial Phases of a Stress Fracture Disuse Muscle Atrophy Ligament Strain

Synovitis

Chronic ACL Deficient Knee

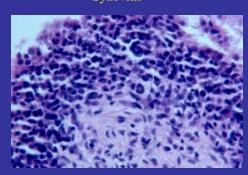
Synovitis



PET Scan Fl 18



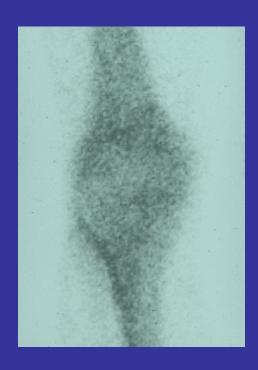
Loss of Osseous Homeostasis



Loss of Soft Tissue Homeostasis

Fundamental Principle of Orthopaedic Treatment Restore Tissue/Joint Homeostasis

Rather Than Restore Normal Structural/Biomechanical Characterictics





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