



Peroneal Ankle Symposium Peroneal Problemsications Ath Compaging Compaging Surge Approach in Foot & Ankle Surge Approach

Anish R. Kadakia MD 2012

Associate Professor 121S

Vern University: Feinberg Sch

Northwester Den Sch

Northwestern University: Feinberg School of Medicine

Department of Orthopedic Surgery





- Overview sium

 Diagnosis/Imaging kle Symposium

 Conservative Treatment plications

 Surgical Technique Complications

 Tenosymovitis & Ankle Surgery

 Peroneus Quartus
 - - Hypertrophic Peroneal Tubercle
 Subluxation
 Re-September 20th/21st 2012

 - Revision





Brevis > Longuism Brevis Brevis Anterior Eccation Colications

- Brevis
- Amterior Location
 Increased compression secondary longus
 Damage from the posterolateral fibular ridge if subluxation

UNIKLINIK BALGRIST September 20th/21st 2012





Disorders of the Peromeals History Posterolateral pain and swelling tions Acute inversion injury Surgery

- History
 - Possible acute tear Ankle Surgery

 Instability (Weakness

 Chronic in:

 - KLINIK BALGRIST
 - September 20th/21st 2012





Disorders of the Peromeals Physical Examination

- - Posterolateral Swelling

 - Pain with resisted eversion

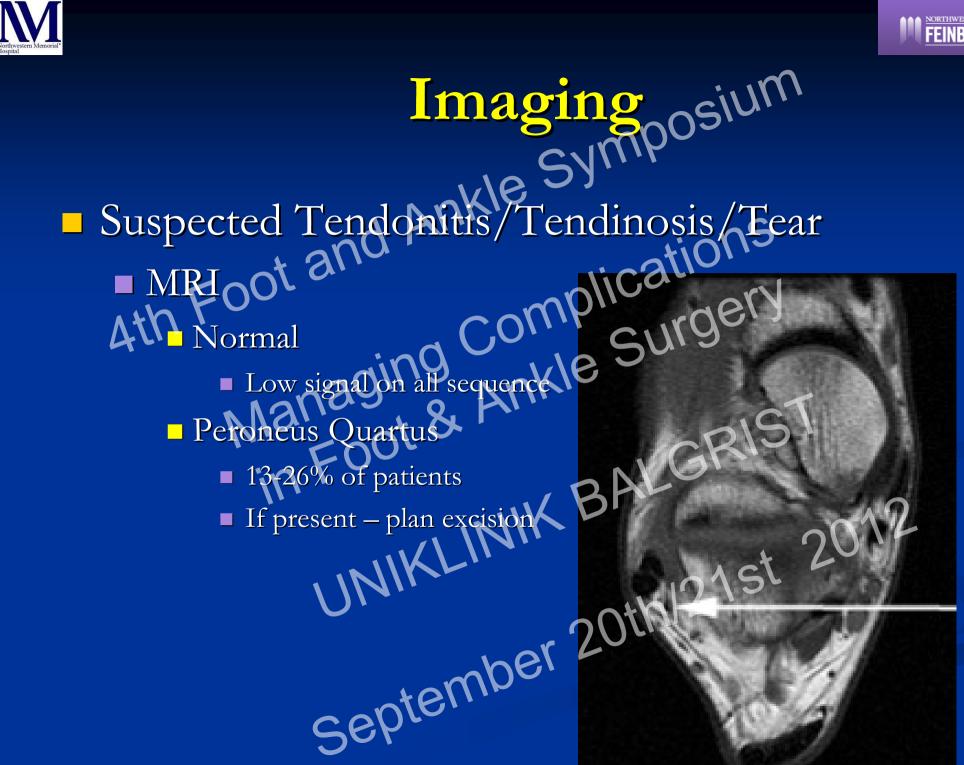
 Subluxation Apprehension with resisted eversion
- Critical to assess

 - Objective Laxit

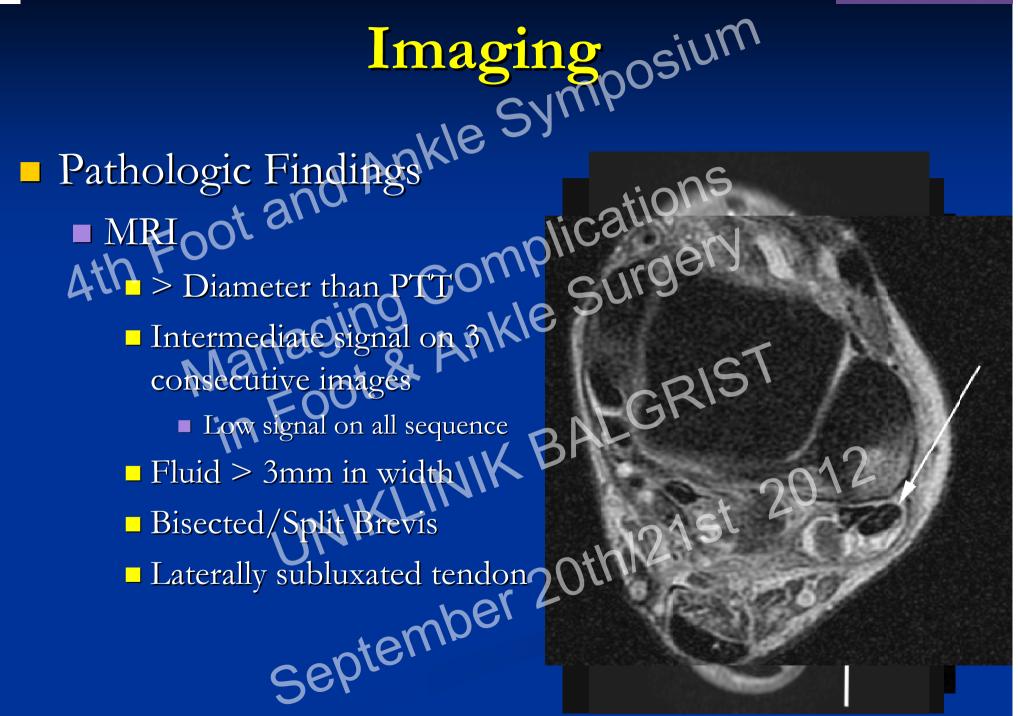




September 20th

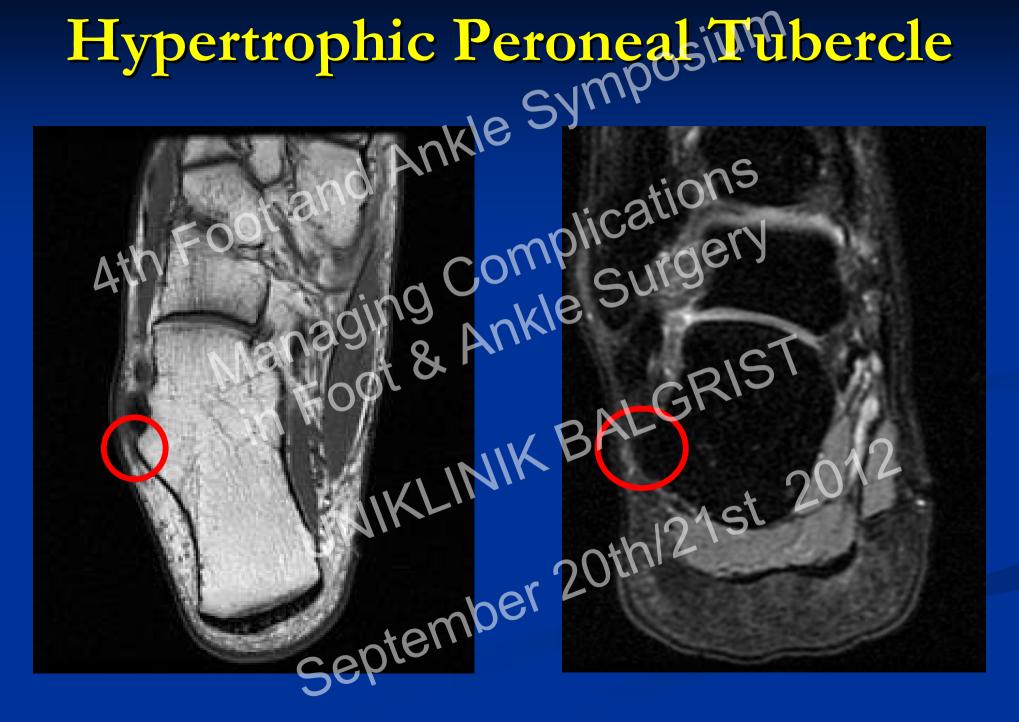
















Imaging osium Peroneal Tendon Subluxation Duance and American as







Conservative Treatment-Tenosynovitis Raftial tear

- Limited literature evidence upon which to base Attempted on all patients has delay has no obvious detriment & Ankle & Ankle & RICE

 RICE
 - INIKBALGRIST

 - If Improvement
- Provement

 Lace up ankle brace with malleolar support

 Physical therapy





Conservative Treatment - Acute SPR injury Ankle

- - 25% 57% success rate with conservative treatment

 Cast > Taping

 (Stover CN, Bryan DR. Traumatic dislocation of the peroneal tendens. Am J Surg 103:180-186, 1962) (McLennan JG. Treatment of acute and chronic luxations of the peroneal tendons. Am J Sports Med 8(6):432-6, 1980) (Escalas F, Figueras JM, Merino JA. Dislocation of the peroneal tendons. Long-term results of surgical treatment. J Bone Joint
 - Offered to all non-athletic patients, however, • Acute surgical repair per 20th/21st 2012

 September 20th/21st 2012
- Athletic/active patients





Conservative Treatment Chronic peroneal subluxation Chronic peroneal subluxation

- - No obvious role for conservative treatment

 Recurrent subluxation ⇒ chronic tears

 Symptomatic patients

 Surgical reconstruction
 - UNIKLINIK BALGRIST
 - September 20th/21st 2012





Surgical Treatment - Symbovitis Goals Synovectory Synovectory

- Goals
- If Required 9 Ankle Surgery

 Groove Deepening

 Peroneal Total Peroneal Tubercle excisionBALGRIST

 If Prominent IXL September 20th/21st 2012

 - Imbricate Retinaculum





Incision Symposium

Ath Foot and Ankle Symposium Managing Complications
In Foot & Ankle Surgery UNIKLINIK BALGRIST September 20th/21st 2012





Retinaculum ingised

















Excision of Space Occupying Tissue Posium Low lying brevis Ankle

- - Muscle present within the distal fibular groove
 - May predispose to synovitis/tear (1908)
 coneus Quartus, Ankle
- - Accessory muscle that attaches to lateral wall of September 20th/21st 2012 calcaneus
 - May predispose to synovitis/tear





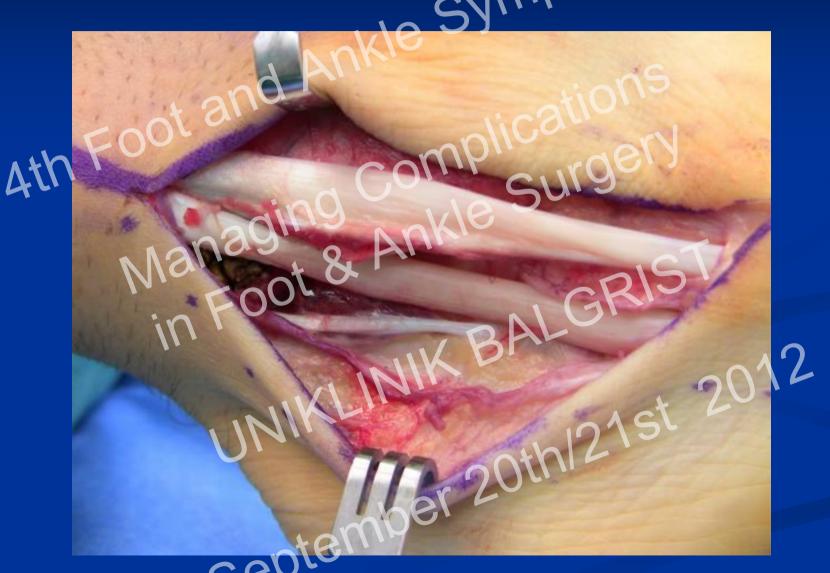
Low lying PBium







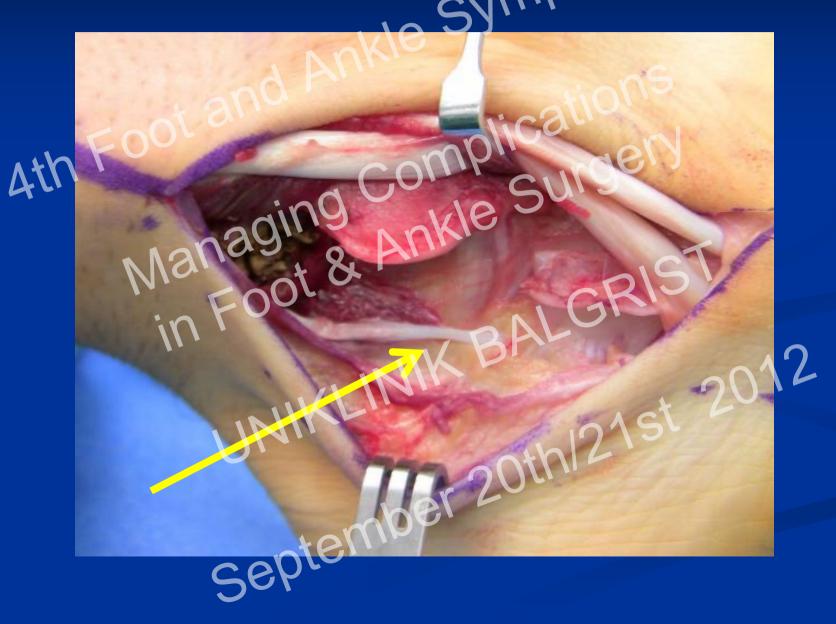
Debridement of Misscle







Peroneus Quartius Symposius





Peroneus Quartus – Release From Insertion







Peroneus Quartus - Exterision







Tendon Teasium ->50% viable tendon ->50% viable tendon

- - Exeision of diseased tissue lications
 - Tubularization of remaining tendon

 Begin proximal to teat (1884)
 - 4-0 nylon or 4-0 PDS suture ALGRIST
 I prefer on II

 - □ I prefer smaller absorbable suture

 Some thought that use of PDS incites an inflammatory response which may be superior for healing











Tendon Repair Appearance PB





Tendon Teasium < 50% viable tendon Kle Symposium

- - Excision of diseased tissue
 - Side to side tenodesis
 - Dermal matrix reconstruction?

Assumes viability of other tendon Surgery
ermal matrix reconstructs
Crates J. Barber A. M.

Crates J. Crates (Rapley J, Crates J, Barber A. Mid-Substance Peroneal Tendon Defects Augmented With an Acellular Dermal Matrix Allograft. Foot Ankle Int. 2010; 31(2): 136-140.)

- 11 cases of complete midsubstance peroneal tear min 12 mos Painless ROM
 Proximal tendon must be viable of the September 121st 2012





Complete rupture of L







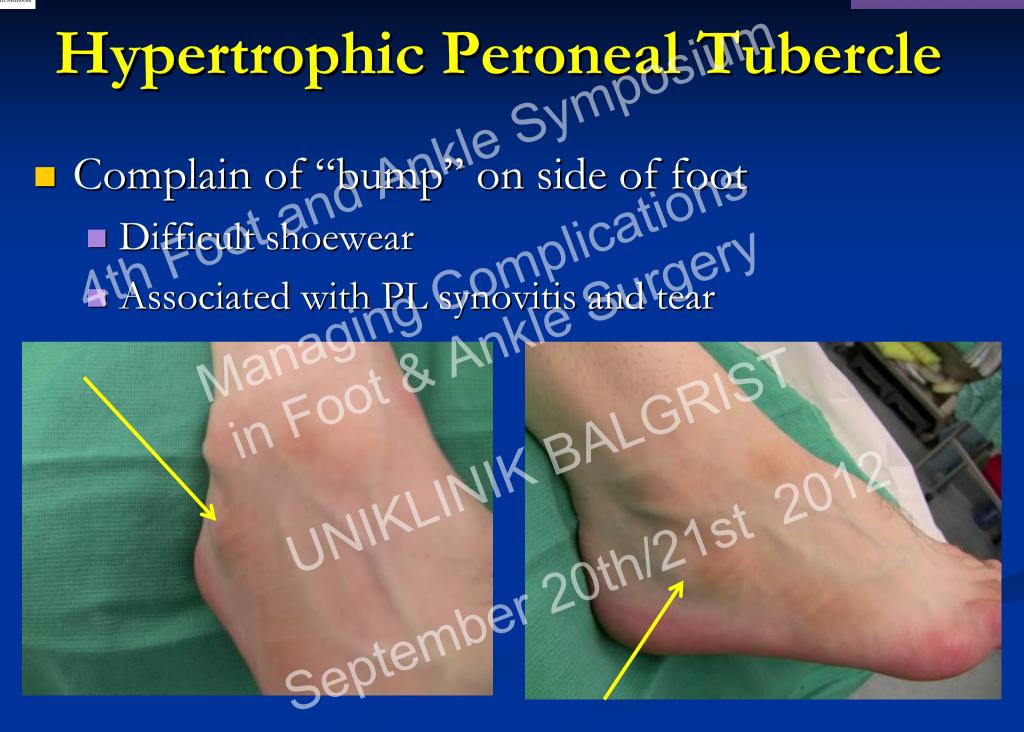
Excision of non-viable fissue















Exposure – Posterioguto PL







They can also be buge





Osteotome to create co-planar surfaces of the surfaces of the





Following Resection - Rasp to smooth surface to bone wax







Groove Deepening

Significant reduction in pressure within peroneal groove of an appropriate of the CL. Hung-Geun J. Parks BG, School Oroot Ninkle Int 2003 er y

May minimize recurrence

Results

May minimize recurrence

UNIKLINIK BALGRIST September 20th/21st 2012





- Benefit
- Groove Deepening

 Benefit

 Decreased pressures with middle and distal peroneal

 Agroove

 Enhanced peroneal stability
- Can be utilized in addition to all peroneal pathology
 My preference • If both tendons preserved bluxation September 20th 21st 2012
 - - Tear/Tendinosis
 - Subluxation





Groove Deepening

- Treatment of choice for chronic peroneal Multiple Methods Described Surgery

 My Method of Choice No.

 - - Burr followed by bone wax to create smooth surface
 - Simple, effective, no risk of bone "popping back"
 - Detriment removed normal smooth surface of posterior fibula September 20th/21st











Technique symposium and Ankle Symposium

































Revision Symposium FHL transfer to the base of the 5th Metatarsal

- - Recreates dynamic eversion of the peroneals
 - Does not recreate PE of the 15 Ray

 Graft Reconstruction

(Redfern D, Myerson M. The Management of Concomitant Tears of the Tendons. Foot and Ankle Int. 2004: 25(10); 695-707)

- Requirements Viable proximal muscle (at least one)
 Graft Allo or Muto Hamstring
 Acute Minimal scarring within sheath
- Staged Heavy scarring inflammation
 Septer Staged Heavy scarring inflammation







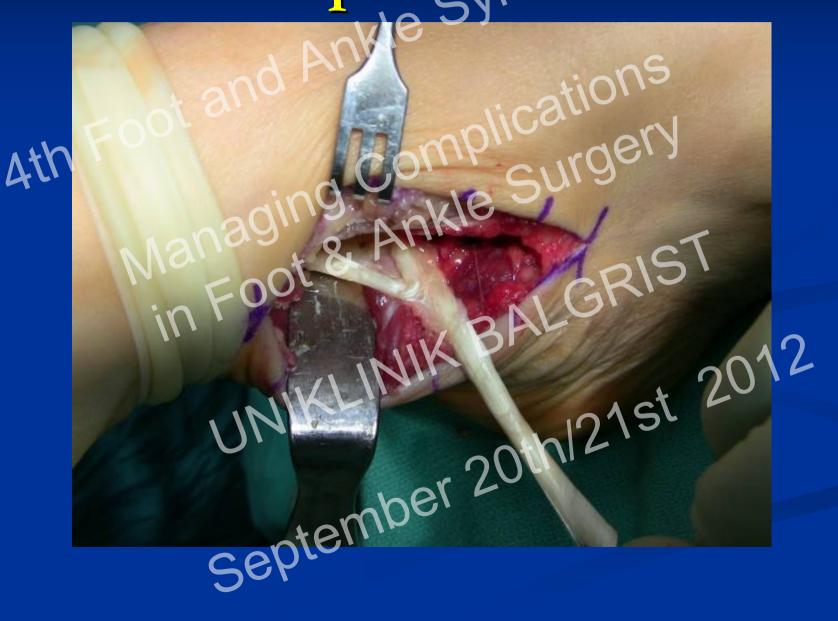








FHL Harvest – Cross Tendinous Slip to Figure 51 Composition of Figure 1 Compo







Diseased Peroneials Symposium S













S/P Excixionsium Symposium Symposium











Tunnel Enlargement







Distal Transfer of Tendon







Proximal Appearance Symposius







Tensioning of Transfer







Final Appearance of the Symposium of the







Summary osium Preserve/Reconstruct

- Groove Deepening Complications
 Subluxation Chronic
 Peroned TE 001

 - Revision
- Assess proximal viability

 FHL reliable open ■ FHL reliable operationer 20th 21st 2012
 September 20th 21st 2012



Thank You ium. Thank You ium. Thank You ium. Thank You ium.

ving Complications
Ning Complications
Surgery



JIK BALC ber 20th