Just Open It!
Open Gluteus Medius Repair and Gluteus Max Transfer

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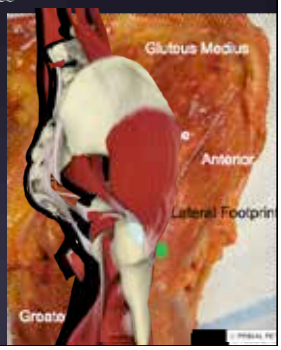
Disclosures

- Zimmer-Biomet – Consultant
- Smith and Nephew - Consultant

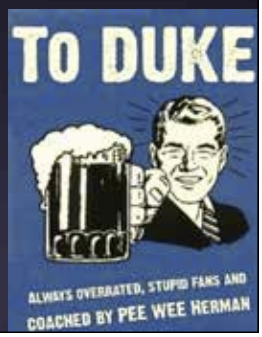
Anatomy

- Large attachment area
- Often an attritional rupture
- Relatively short tendon segment



Open Repair of the Gluteus Medius

- This is an important tendon/ muscle used with every step
- Large attachment area with a tendon that is often not of the highest quality
- Easy approach – Limited violation of other structures
- Repair often requires some advancement
- Arthroscopic repair - Questionable ability to advance/fix with little upside



Results

- 16 of 19 patients did well

Surgical Treatment of Hip Abductor Tendon Tears

Joseph F. Davies, MD, James B. Stiehl, MD, Joseph A. Davies, BA, and Patrick B. Geiger, PAC
Investigation performed at the Department of Orthopaedic Surgery, Aurora Sinai Medical Center, Milwaukee, Wisconsin

Results

- 72 patients
- 90% pain free or minimal pain at 2 year
- Hip score 10 pre op to 16 at final follow up (0-18 normal)

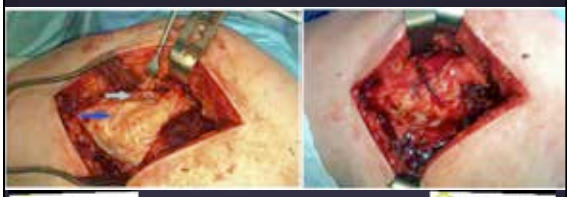
Surgical Repair of the Gluteal Tendons

A Report of 72 Cases

Michael J. Walsh, FRACS, FAOrthA CPL(IE),*
Judie R. Walton, PhD,† and Nichola A. Walsh, MB, BS‡

Gluteus Medius Tears

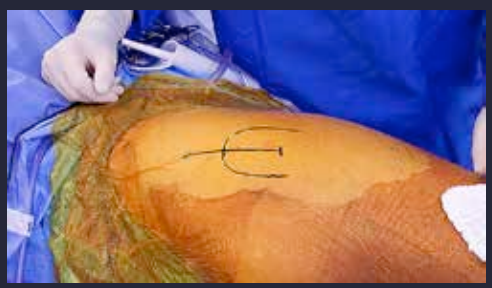
- Open repair technique
- Many options from bone tunnels to anchors.



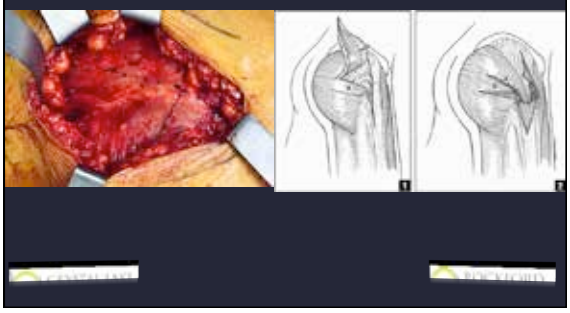
Big Problem

- Chronic irreparable tears of the abductor mechanism have been reported in the arthroplasty literature, but can occur in the native joint as well.
- Difficult to treat

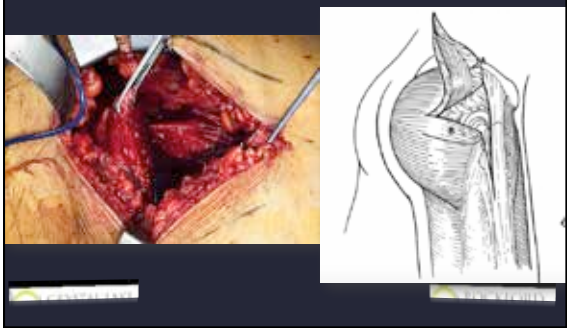
Gluteus Maximus Transfer



Gluteus Maximus Transfer



Gluteus Maximus Transfer



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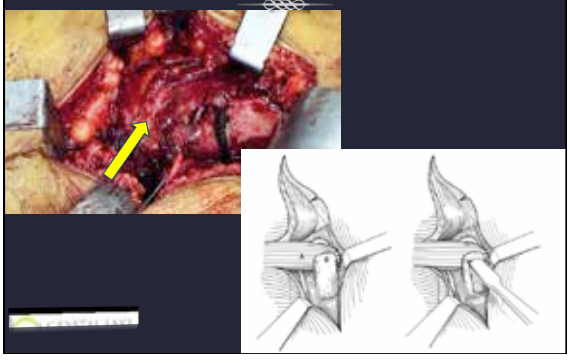

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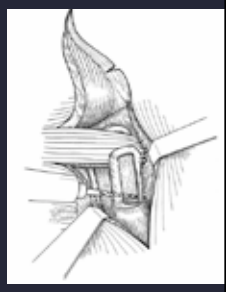
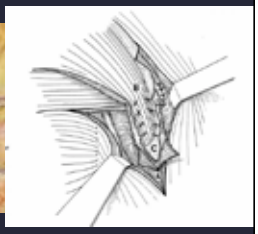


Gluteus Maximus Transfer



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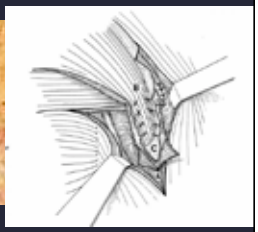


Clinical Outcomes

- Whiteside LA. Transfer of the Anterior Portion of the Gluteus Maximus Muscle for Abuctor Deficiency. CORR 2012.
- 11 patients (4 male, 7 female) w abductor deficiency s/p THA
- 67 yrs (range, 52-73)
- Severe abductor lurch w ambulation, Trendelenberg sign, no active hip abduction LDP
- 16 months post-op (range, 16-42 months)
  - 10/11 regained abductor strength against gravity in LDP
  - 9/11 walked without limp and negative Trendelenberg sign

Supplement

- In parallel to rotator cuff treatment it has been proposed to supplement the repair.

Surgical repair of hip abductors. A new technique using Graft Jacket® allograft acellular human dermal matrix

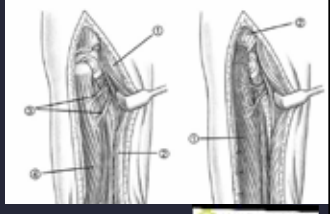
Biyyam M. Rao · Tamer T. Kamal · John Vafeye · Lee Taylor

Vastus Advancement

Advancement of the Vastus Lateralis Muscle for the Treatment of Hip Abductor Discontinuity

Martin Beck, MD,* Michael Leunig, MD,* Thomas Ellis, MD,† and Reinhold Ganz, MD*

- Vastus Lateralis advancement has also been proposed.
- 10 patients with 7 good results – limited evidence
- Attachment of vastus lateralis to remaining abductors




Thank You
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