



aspetar البيتار

- Pain in the region of the lateral femur condyle or
- It occurs after repetitive motion of the knee (runner, cyclist, triathlete, etc.)
- Diagnosis is made based in a combination on the case history and physical

aspetar) سـبيتـار



Pathology Friction?

- Repetitive shift forward and backward of iliotibial band over the lateral condyle
- This view has been called into question by Fairclough J et al (J Sci Med Sport 2007)
- ITB is NOT a distinct anatomical structure but merely a thickened zone within the lateral fascia

Pathology (Fairclough J et al J Sci Med Sport 2007)

- It is impossible that the anterior-posterior glide: friction syndrome cannot exist!
- An illusion of the anterior-posterior movement of ITB results from repetitive cycles of tightening with compression on connective tissues lying deep to the Band
- Fat pad impingement? (Barker JU, SportsHealth 2011)

Pathology

aspetar البيتار

• Hariri S et al (Am J Sports Med 2009) calls into question whether inflammation of ITB is actually involved.

IT MAY BE TWO DIFFERENT SUBTYPES:

- 1. Involvement of cyst, bursa or lateral synovial recess
- 2. Compression of underlying connective tissues

Biomechanical factors

- Weak hip abductors?
 - Some authors did not find abductor weakness

ASPETAR سـبيتـار

- Tight Iliotibial band?
 - No study to date correlate Ober test with ITBS
 - Ober test may be not sensitive enough
 - Hamil J et al (Clin Biomech 2008) "Looser ITBS": Could ITBS stretching accentuate symptoms?
- Lower limb mal-alignments
 - Leg length discrepancy
 - High knee Q angles

Biomechanical factors

- Angle of knee flexion during stance phase?
 - ITB most likely to rub or compress at 20-30^o of knee flexion.
 - Deterioration of knee flexion angle with fatigue. Increased angle of flexion in runners with ITB. (Miller R, Gait posture 2007)
 - No difference of knee flexion between runners with or without ITBS (Orchard J, Am J Sports Med 1996)
- Rear-foot eversion?

س بیت ار 🕼 ASPETAR

Treatment (Levine R, Curr Rev Musculoskelet Med 2010)

- Anti-inflammatories?
- Stretching?
- ITB, Gluteal muscles
 - No studies documenting a link between ITB distension and improved running biomechanics or symptoms relief
- Connective tissue manipulation?
 Scarce published data has tested the efficacy of this treatment.
- Strengthening of hip abductors?
 - Though not trials have been published on the efficacy of strengthening hip abductors exercises, still are often recommended.
- Improved neuromuscular coordination?
- Surgical excision of cyst, bursa, lateral synovial recess?

