

Injury Prevention + At-home Strength Program for Runners



Today's Agenda

- Short presentation

 - ∞The glutes!
- Demo/workout

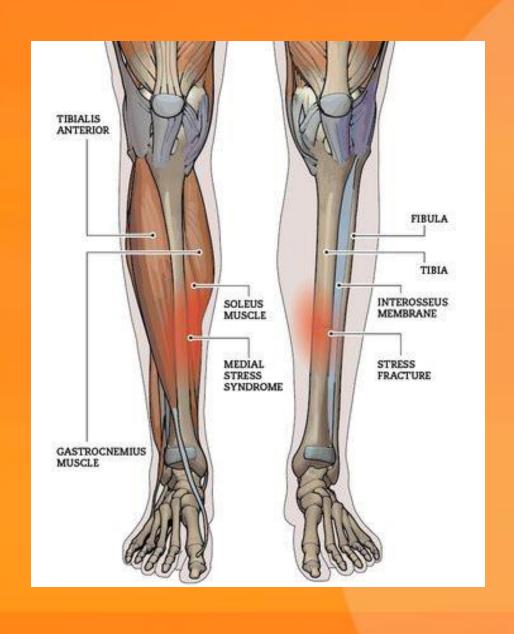


Running Injuries: Why?

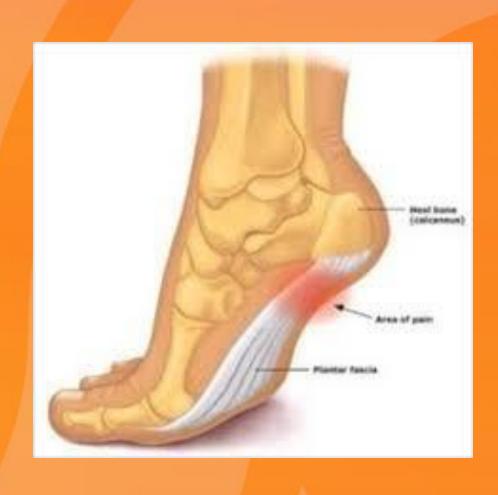
- Repetitive Overuse
 - Excessive increase in volume
 - Excessive increase in intensity
- Inadequate recovery/nutrition
- Mobility, flexibility, strength, other deficits



Running Injuries







Most common lower body injuries: medial tibial stress, Achilles tendinopathy, plantar fasciitis



Other Injuries

 Hip or sacral stress reactions/fractures, muscle strains, IT band syndrome, labral tears or hip impingement, patellofemoral pain





How can we protect from injury?

Smart training

- Stability: Gluteus medius, core
- Strength: Gluteus maximus

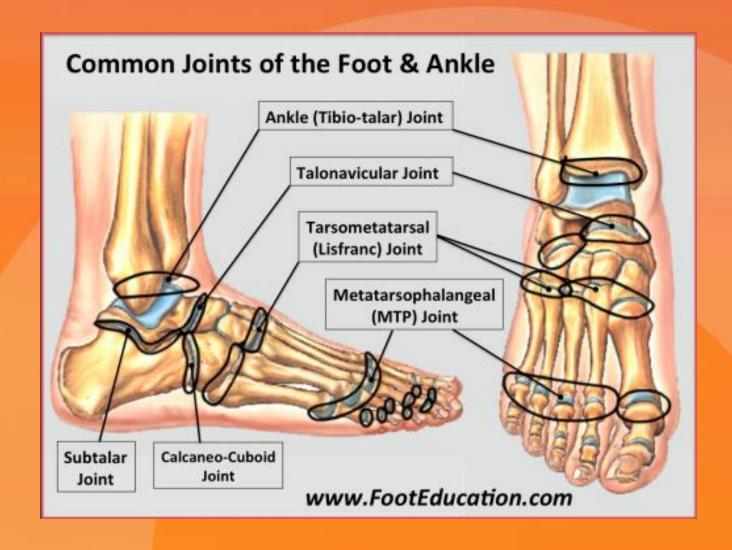


Training Principles

- Mileage
 - 10-20% per week
 - Beginners: start with 1-4 miles, 2-4 days/week, run-walk, progress more slowly
- Intensity
 - Gradual

Mobility

- Foot and ankle joints
 - for pronation/supination
- Hip joint
 - for adequate hip flexion/extension, rotation
- Thoracic, lumbar spine
 - breathing, upper body mobility

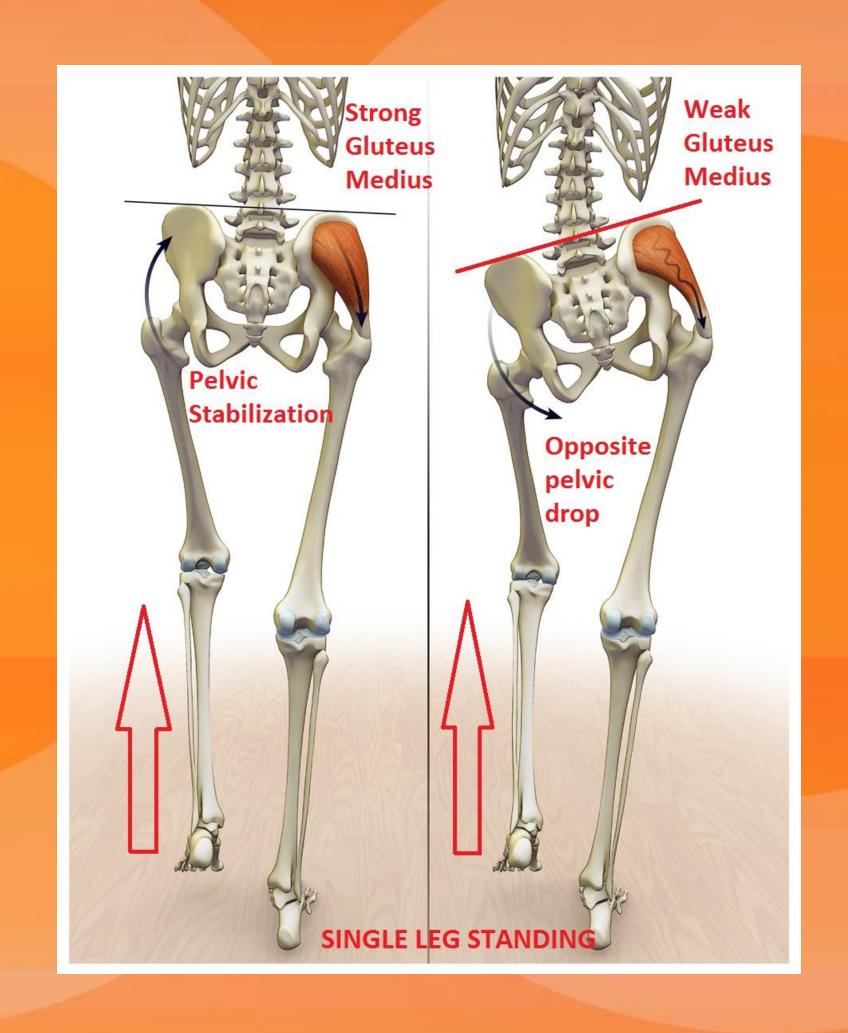


Stability and Strength

- Core: internal and external obliques, transverse abdominus, pelvic floor, rectus abdominus
- Stabilizes the trunk/pelvis to give a solid base for our arms and legs to move freely from
- Improves our efficiency of gait = less extra movement and strain on tissues

Stability and Strength

- Gluteus medius: stabilization
- Abducts and internally or externally rotates the hip
- Affects spine, pelvis, hip, knee, ankle, foot



Stability and Strength

- Gluteus maximus: propulsion
- ∞ Eccentrically slows down the leg from swing
- Extends the hip and entire leg to propel the body forward
- Glute max weakness can lead to compensation by other muscles (lumbar extensors)
- Various factors affect the function of the gluteal muscles: mobility, flexibility, motor control





More resources

- Some exercises are available on our YouTube page: React Physical Therapy
- Questions about this webinar, more detail, etc: email me! <u>jdiamond@bereact.com</u>
- Come in for a free injury screen/consultation! *Telehealth* option is currently available also.

WORKOUT TIME!





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