

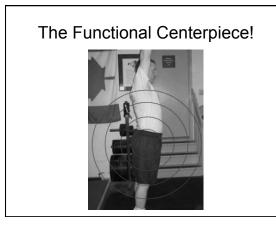
### I could talk for days!

### • 3 Key Points

- 1. Centerpiece of our body
- 2. Hips and pelvis are intimately linked
- 3. The hips need everything!

### It's all in the hips...

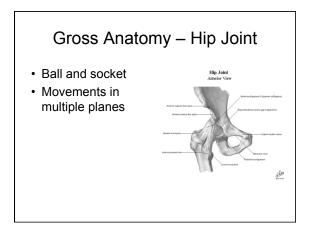
- Hip strength/mobility can influence the following
  - Knee pain (Ireland, Powers)
  - Low back pain (Murray)
  - Lower leg injuries (Niemuth)
  - Opposite shoulder pain/dysfunction



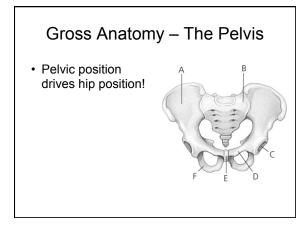
### Patterns of Injury Development: The Joint-by-Joint Approach

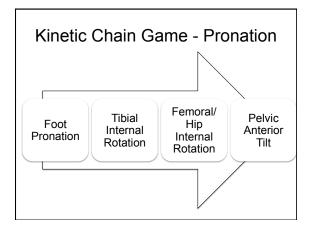
Joint	Needs
Ankle	Mobility
Knee	Stability
Hip	Mobility
Lumbar Spine	Stability
Thoracic Spine	Mobility
Scapula	Mobility/Stability
Gleno-Humeral	Mobility

What about the PELVIS?

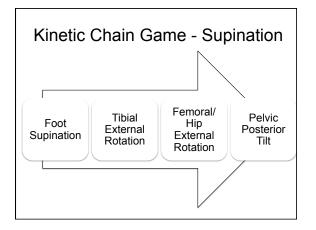




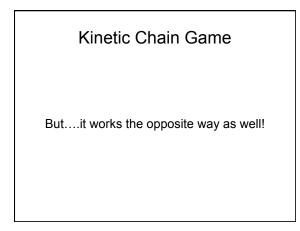


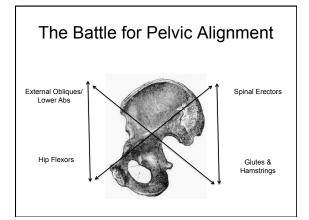




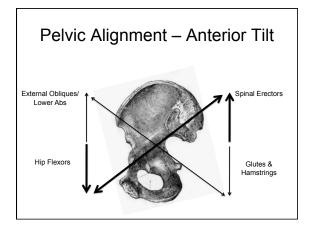






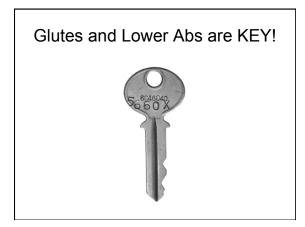


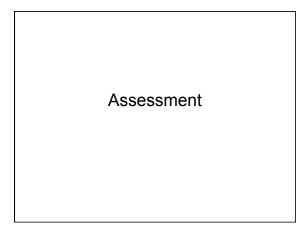






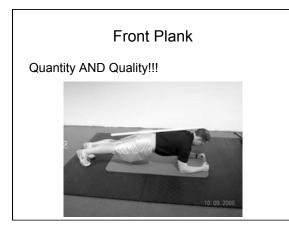
Pelvic Alignment – Anterior Tilt





Hip Rotation - Supine

Hip Rotation - Prone





Front Plank
Poor Quality

Leg Lowering

## Squat

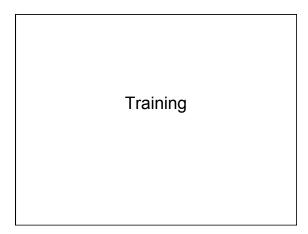
Squat – Quad Dominance

Squat – Knock Knees

# Lunge

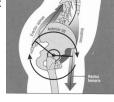
Lunge – Knee Cave

Lunge – Quad Dominance



### What did our assessment tell us?

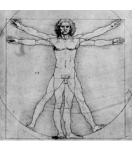
- Primary limitations
  - Pelvic stability/alignment
  - Hip mobility
  - Hip motor controlHip strength
  - Hip strength – Hip stability



### What does a healthy body need?

• Symmetry – Mobility

- Motor Control
- Strength



### But....

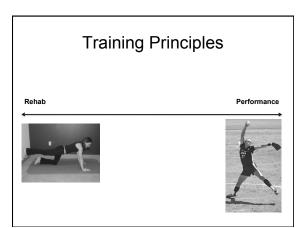
### Athletes are different!





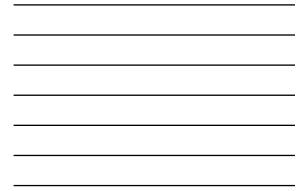
### What does a healthy body need?

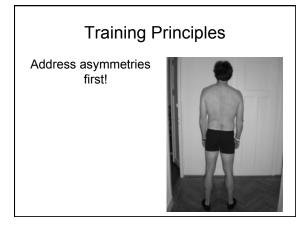
QUALITY movement



### Isolated Integrated







### Pelvic Stability/Alignment

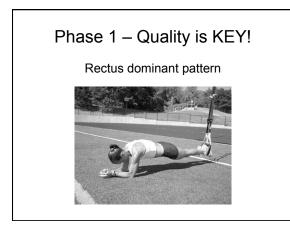
- Phase 1 McGill
- Phase 2 Corrective
- Phase 3 Dynamic Stabilization

### Phase 1 - McGill

- Planks
- Side Planks
- Birddogs







### Phase 2 - Corrective

Chop/Lift Variations

### Phase 2 - Corrective

Split-Stance Push/Pulls

### Phase 3 – Dynamic Stabilization

- Push-ups
- Split-Squats
- Offset Loading
- · Everything can be stabilization work!

### Phase 3 – Dynamic Stabilization

Poor stabilization

### Hip Mobility





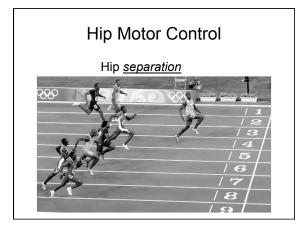
### Hip Motor Control

- Hip flexion (above 90)
- Hip extension
- Hip abduction
- Hip external rotation



### Hip Motor Control

• Hip flexion (above 90)





Hip Motor Control

Hip extension

### Hip Motor Control

• Hip abduction

### Hip Motor Control

Hip external rotation

### Hip Strength and Power

• Why is strength a bad word?

Squats

– Deads

Power CleansSnatches



### Trunk Extension

### Hip Extension

### Hip Stability

Ability to prevent movement/motion
 – Starts at pelvis!

- Single-Leg Work



### Hip Stability

### Hip Stability

### Summary

- Remember our key points!
  - 1. Centerpiece of our body
  - 2. Hips and pelvis are intimately linked
  - 3. The hips need everything!



Thank You!

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