

# Integrated Movement Specialist™





# **Integrated Movement Specialist™ Certification**

**IMS candidates** learn how to optimize client training:

- Learn Movement Quality as foundation of every training method
- Develop efficient Movement Analysis and Recommendation skills
- Gain new programming to attract clients and grow your business
- Join elite Balanced Body global community of movement pros

The Integrated Movement
Specialist certificate
positions you as an expert in
movement performance,
enabling you to retain and
attract clients!

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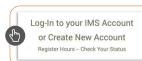
Integrated Movement Specialist™



Register for your Integrated Movement Specialist™ certificate today!

GET STARTED! Sign up and begin your IMS journey today.

- Visit the Education page https://sites.pilates.com/ integrated-movement/
- Create your account, enter the IMS course(s) you've taken
- Visit your account to track your progress!





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# Integrated Movement Specialist™

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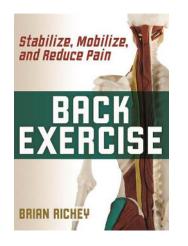
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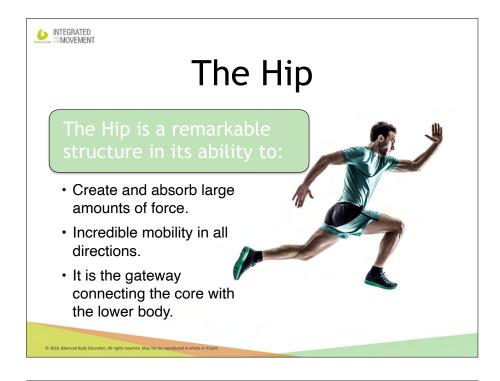
# Back Exercise: Stabilize, Mobilize and Reduce Pain By Brian Richey

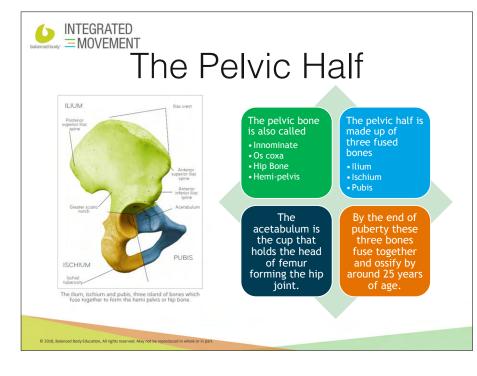
My new book deals is for anyone who has or has a client dealing with low back pain. It goes into

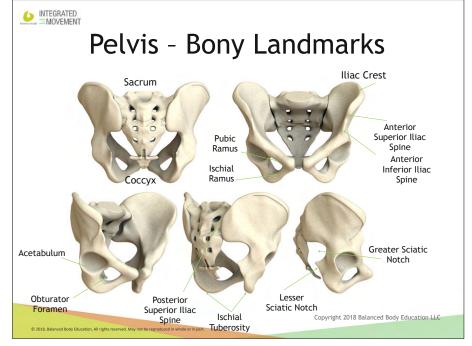
with low back pain. It goes into depth on specific spinal pathologies as well as non-specific low back pain, explaining each pathology, highlighting the contraindications and prescribing specific exercise programing to

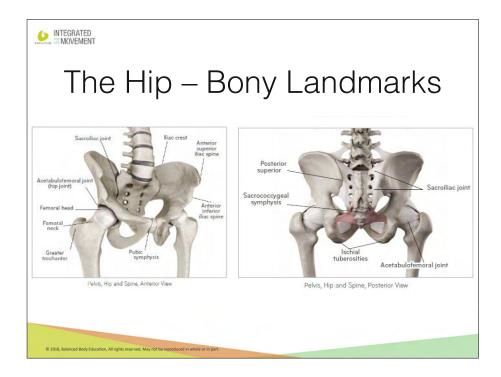
train and progress them safely.

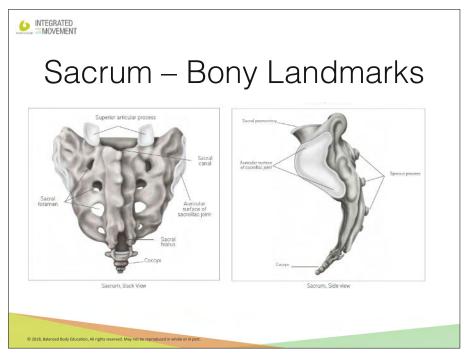


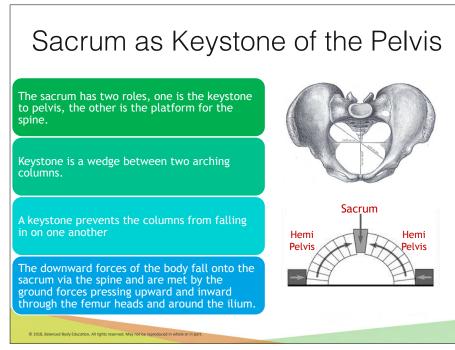


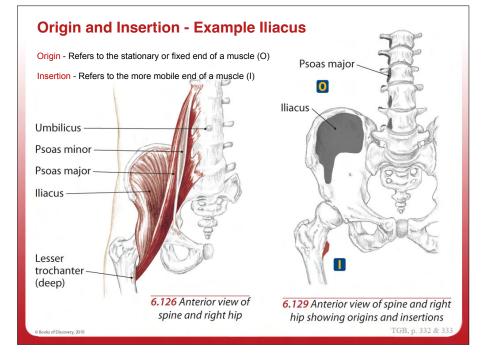


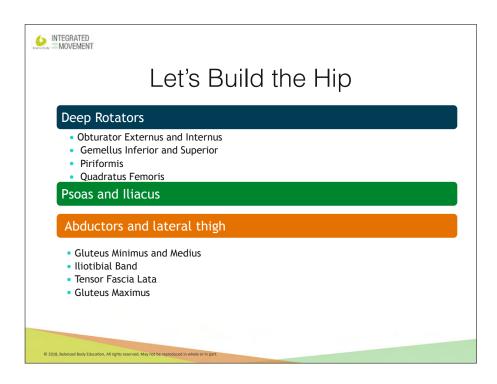


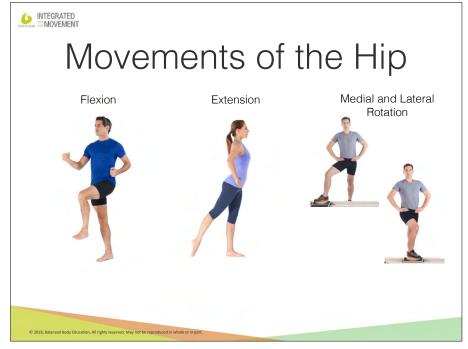


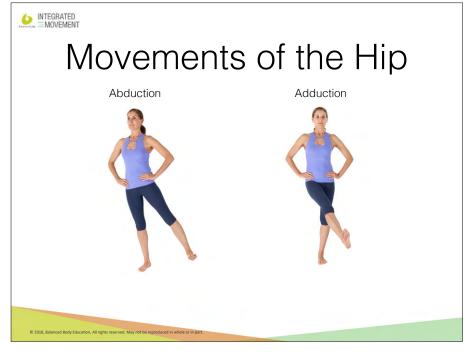


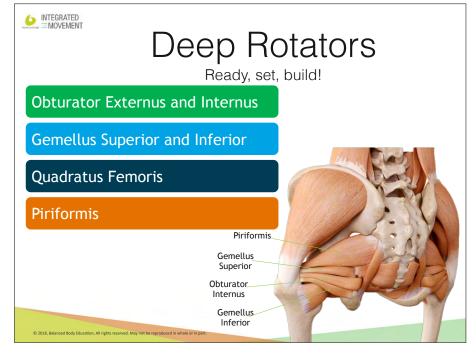


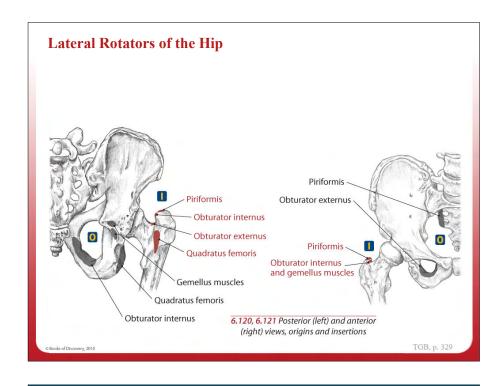


















# Origin:

- Rami of pubis
- · Rami of the ischium
- External surface of obturator membrane

### Insertion:

· Trochanteric fossa of the femur

#### Actions:

- Lateral rotation
- Adduction
- Supports the inferior surface of femoral neck and stabilizes the pelvis

# **Obturator Internus**



# Origin:

 Fills lesser pelvis covering inferior surface of obturator membrane

### Insertion:

- Medial surface of greater trochanter of femur
- Proximal and superior to trochanteric fossa.

## **Actions:**

- Laterally rotates
- Abducts and laterally rotates extended
- Abducts leg when hip is neutral, flexed or extended
- · Stabilizes hip during walking
- Serves as attachment point for Le

# **Gemellus Superior and Inferior**





# Origin:

- G. Superior: External surface of ischial spine superior to obturator internus.
- G. Inferior: Superior ischial tuberosity just inferior to obturator internus.

### Insertion:

· With the tendon of the obturator internus onto medial surface of greater trochanter of femur

#### Actions:

- Lateral rotation on neutral or extended
- Abduction on neutral, flexed or extended hip
- Steadies head of the femur in acetabulum

# **Quadratus Femoris**

Posterior View



# Origin:

 Proximal part of lateral border of ischial tuberosity

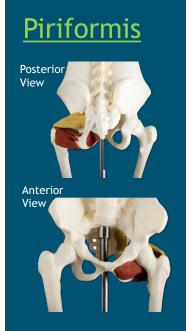
#### Insertion:

 Intertrochanteric crest between the greater and lesser trochanters

## **Actions:**

- Lateral rotation of the hip
- Adduction of the hip
- Stability of femur and acetabulum

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# Origin:

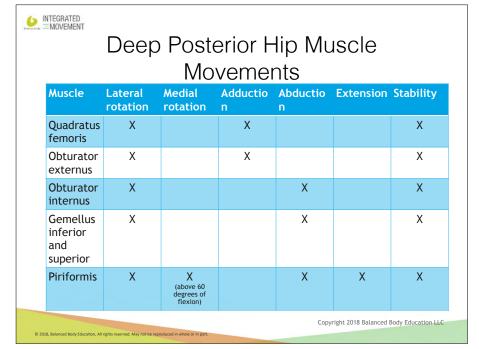
- Pelvic surface of sacrum between (and lateral to) pelvic sacral foramen 1-4
- Margin of greater sciatic foramen
- Pelvic surface of sacrotuberous ligament

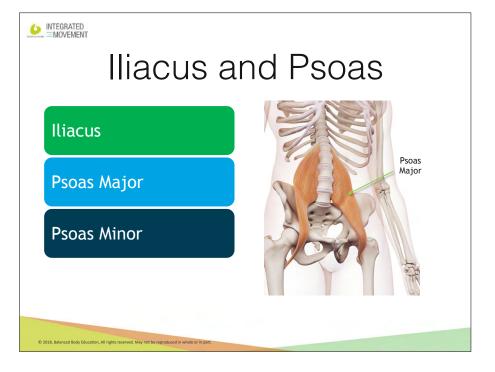
### Insertion:

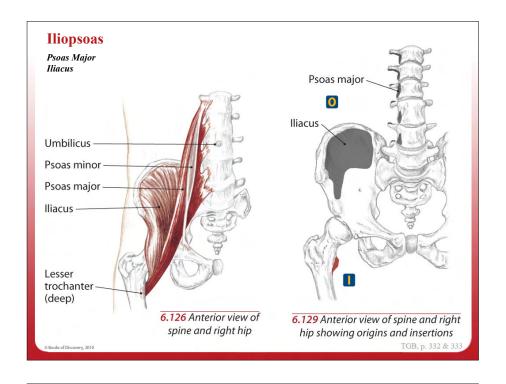
Superior border of the greater trochanter

#### **Actions:**

- Laterally rotates and abducts neutral or extended hip
- Medial rotation when hip flexed above 60°
- Creates posterior wall of the pelvis and shares connective tissue with the Coccygeus of the pelvic floor







# <u>Iliacus</u>

Anterior View



# Origin:

- Superior two thirds of iliac fossa
- Iliolumbar and ventral sacroiliac ligaments

### Insertion:

· Lesser trochanter of the femur

### **Actions:**

- Fixed Pelvis:
  - Hip flexion, adduction, lateral rotation
- Fixed Leg:
  - Anterior pelvic tilt

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# Psoas Major

Anterior View



# Origin:

 Bodies, transverse processes and intervertebral discs of T12 to L5

### Insertion:

- Lesser trochanter of the femur
- Shares common tendon with iliacus

### **Actions:**

- Fixed Pelvis:
  - Hip flexion, adduction, lateral rotation
- Fixed Leg:
  - Anterior pelvic tilt

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# **Psoas Minor**

Anterior View



## Origin:

 Sides of vertebral bodies of T12 and L1

# Insertion:

- Superior pubic ramus
- Medial to iliopsoas tendon

### **Actions:**

- Posterior pelvic tilt
- Anterior translation of the ribcage

Psoas minor is absent in approximately 60% of the population.

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#### INTEGRATED = MOVEMENT Deep Anterior Hip Muscle Movements **Hip Actions Pelvic Actions** Flexion Lateral Anterior Muscles Adduction Posterior rotation pelvic tilt pelvic tilt Iliacus Χ Χ Χ Χ

Χ

Χ

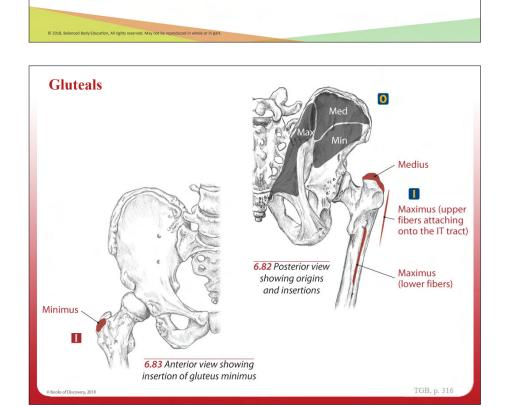
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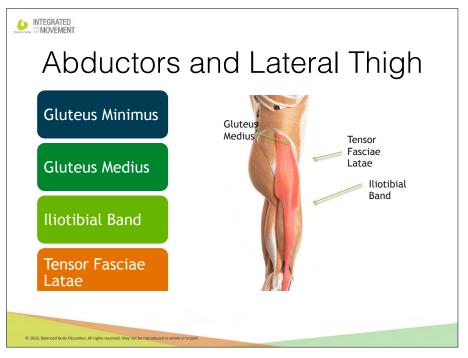
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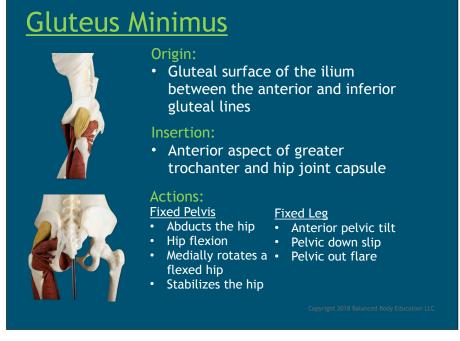
Psoas major

Psoas minor

Χ







# **Gluteus Medius**



# Origin:

 External surface of ilium between iliac crest and posterior gluteal line

# Insertion:

 Lateral surface of greater trochanter of femur



### **Actions:**

### **Fixed Pelvis**

 Hip abduction, flexion, and medial rotation

# Fixed Leg

Anterior pelvic tilt

#### Fixed Pelvis

- Hip abduction, extension and lateral rotation
   Fixed Leg
- Posterior pelvic tilt
- Pelvic down slip

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# Iliotibial Band (ITB)



The Iliotibial Band is a thick band of connective tissue originating on lateral iliac crest and inserting onto lateral side of the tibia. It is not a muscle!

# Origin:

 High point of iliac crest, over greater trochanter.

#### Insertion:

Lateral anterior tibia.

### **Actions:**

- Acts as an attachment for Tensor Fascia Lata and Gluteus Maximus.
- Stabilizes lateral leg.

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# Tensor Fascia Lata



# Origin:

- Anterior part of iliac crest
- Outer surface of ASIS and proximal part of IT band

# Insertion:

 Into IT Band at proximal and middle third of thigh

#### **Actions:**

- Abduction and medial rotation when the hip is flexed
- Stabilize lateral knee through IT band

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# **Gluteus Maximus**



### Origin:

- Posterior gluteal line of ilium and a portion of bone superior and posterior to it
- Posterior surface of lower part of sacrum, side of coccyx
- Aponeurosis of erector spinae, sacrotuberous ligament and gluteal aponeurosis

### Insertion:

- Deep fibers insert into the gluteal tuberosity of femur
- Proximal and superficial fibers inserts into iliotibial tract of fascia lata

### **Actions:**

- Fixed pelvis Hip extension, lateral rotation, adduction and abduction
- Fixed leg Posterior pelvic tilt

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# Lateral Hip and Thigh Muscle Movements

Muscle	Hip Actions, Pelvis stable					Pelvis Actions, femur stable	
	Abduction	Flexion	Extension	Medial Rotation	Lateral Rotation	Posterior Tilt	Anterior Tilt
Gluteus minimus	Х	Х		Х			Х
Gluteus medius (anterior fibers)	Х	Х		Х			Х
Gluteus medius (posterior fibers)	Х		Х		Х		
Gluteus Maximus	Х		Х		Х	Х	

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Why?

**Certification** for Personal Trainers and Group Ex Instructors

Advanced knowledge of **Anatomy** and **Movement** to drive client success

Master movement analysis and expand your programming repertoire

Attract opportunities and **grow your business** in clubs, gyms, studios and clients

Be a part of the elite Balanced Body Education **global community** 



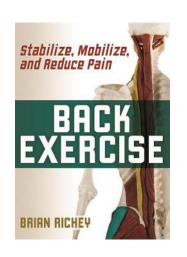
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By Brian Richey

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# Thank you for coming

May you and your clients find benefit in this information.

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If you have any comments or questions, please contact Brian Richey at

brian@fit4lifedc.com



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