13b Kinesiology: AOIs -Anterior Lower Body and Upper Torso

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10 minutes	3reak	Announce the return time and write it on the board.
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5 minutes Attendance Also project the "Class Reminders" slide.

45 minutes Cadaver Video: Acland's DVD Atlas of Human Anatomy

55 minutes Anatomy in Clay

20 minutes **Break** Announce the return time and write it on the board.

60 minutes **Palpation**

10 minutes Break down, clean up, and circle up

3h 30m Total Class Time

13b Kinesiology: AOIs -Anterior Lower Body and Upper Torso Class Reminders

Assignments:

■ 17a Review Questions (A: 131-140)

Quizzes and Exams:

- 14a Kinesiology Quiz
- 17a Quiz
- 18a Kinesiology Quiz
- 19a Quiz
- 21a Exam

Preparation for upcoming classes:

- 14a A&P: Skeletal System Bony Landmark Palpation
 - Trail Guide: biceps brachii and coracobrachialis
 - Packet E:19-20
- 14b Swedish: Technique Review and Practice Feet, Anterior Lower Body, and Abs
 - Packet F: 45-46, and 58

Cadaver Video

- <u>Tibialis Anterior</u>
- Peroneals/Fibularis (longus, brevis, and tertius)
- Quads
- Abdominals
- Pectoralis Major

Anatomy in Clay

Write this list on the board and turn the projector off for now:

- Tibialis anterior
- Fibularis longus
- Fibularis brevis
- Rectus femoris
- Vastus lateralis
- Vastus medialis
- Vastus intermedius
- Rectus abdominis
- Pectoralis major

Palpation

Set Up by the Students

- Students form groups of 3.
- Each group sets up a table and gets 1 face cradle, 1 bolster, and 2 chairs.
- Receivers must remain clothed.
- There will be no need of sheets except for a face cradle cover.

Demo and Practice

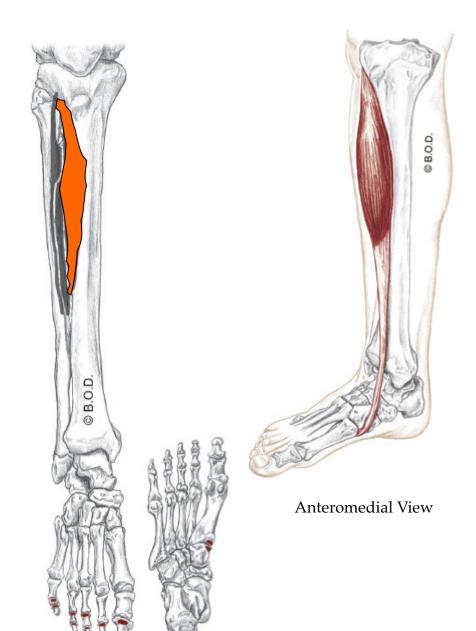
- All of the students come to a central table to watch a brief demonstration of how to palpate one of the focus muscles:
 - List and identify the bony landmarks, especially origins and insertions.
 - List and identify the muscle bellies and tendons.
 - List and explain the actions.
 - Demo how to palpate the muscle while simultaneously offer resistance to the action, "Contract, relax. Contract, relax."
 - The students go back to their table to practice the palpation.
 - 2 students palpate the third student collaboratively.
 - The instructor and assistant circulate to offer guidance and touch comparisons:
- This process repeats for each muscle that will be palpated.
- Once all the focus muscles have been palpated on the first student, repeat the process so that each student will palpate twice and be palpated once.

Tibialis Anterior, page 379

A

Invert the foot
Dorsiflex the ankle (talocrural joint)

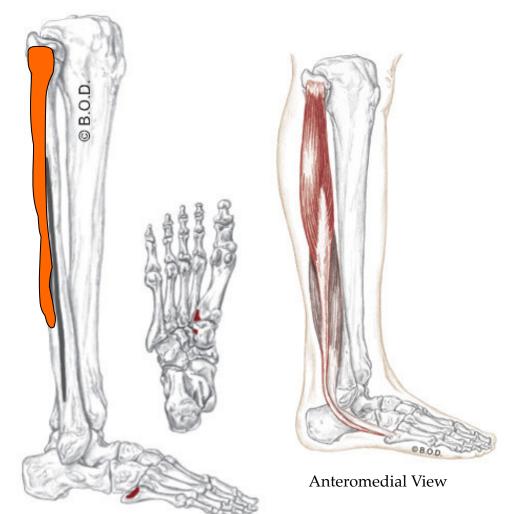
- Lateral condyles of tibia Proximal, lateral surface of tibia Interosseous membrane
- Medial cuneiform
 Base of the first metatarsal



Fibularis Longus, page 376

A Evert the foot
Assist to plantar flex the ankle (talocrural joint)

- Head of fibula
 Proximal two-thirds of lateral fibula
- Medial cuneiform
 Base of the first metatarsal

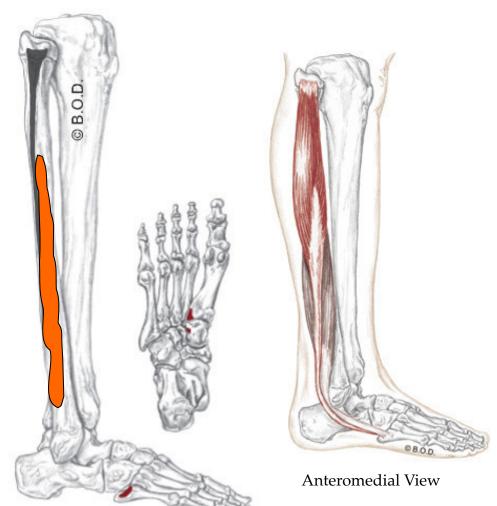


Fibularis Brevis, page 376

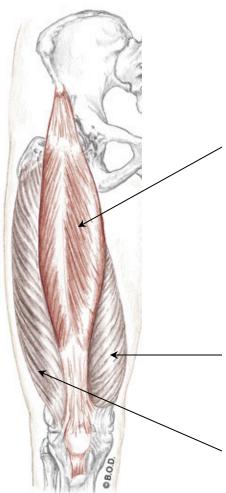
A Evert the foot
Assist to plantar flex the ankle (talocrural joint)

Distal two-thirds of lateral fibula

Tuberosity of the fifth metatarsal



Quadriceps Femoris Trail Guide, Page 306



Anterior View

The **quads** primarily extend the tibiofemoral joint.

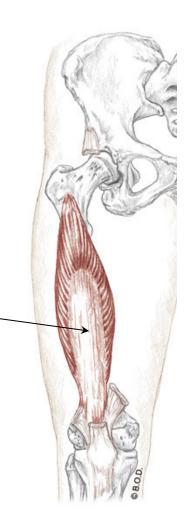
Rectus femoris is cylindrical, superficial, and the only quadricep muscle that also crosses the .

Vastus intermedius _____ is deep to the rectus femoris.

Vastus medialis forms a teardrop shape at the distal portion of the medial thigh.

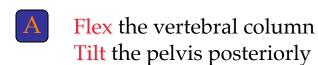
Vastus lateralis is the sole muscle of the lateral thigh.

When do you use trapezius?



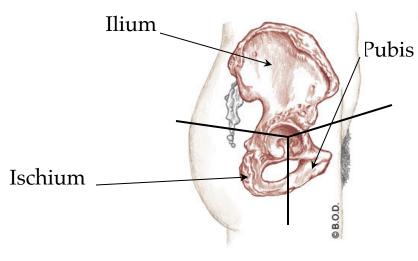
Anterior View

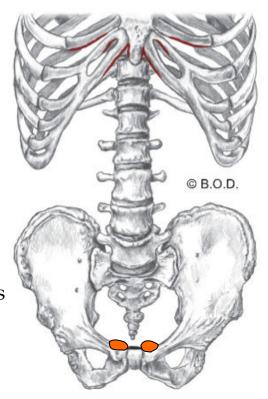
Rectus Abdominis, page 210

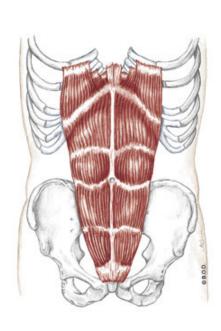


Pubic crest
Pubic symphysis

Cartilage of 5th, 6th, and 7th ribs Xiphoid process







Anterior View

Pectoralis Major, page 89

All fibers:

Adduct the glenohumeral joint

Medially rotate the glenohumeral joint

Assist to elevate the thorax during forced inhalation (with the arm fixed)

Upper fibers:

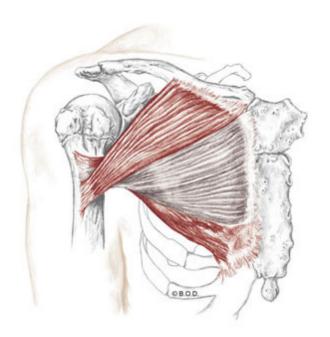
Flex the glenohumeral joint

Horizontally adduct the glenohumeral joint

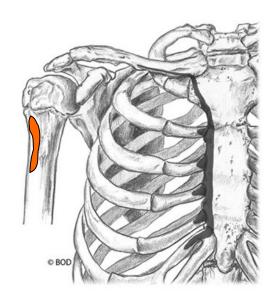
Lower fibers:

Extend the glenohumeral joint

- Medial half of the clavicle Sternum Cartilage of ribs 1-6
- Crest of greater tubercle of humerus



Anterior View



13b Kinesiology: AOIs - Posterior Lower Body