



## 69a Introduction to Myofascial Release: The Structure and Function of Fascia



# 69a Introduction to Myofascial Release: The Structure and Function of Fascia

## Class Outline

5 minutes	Attendance, Breath of Arrival, and Reminders
55 minutes	Lecture: Structure & Function of Fascia
1 hour Total	

*Add the Ublec activity to this lecture where appropriate.*



# 69a Introduction to Myofascial Release: The Structure and Function of Fascia

## Class Reminders

### Exams:

- 70a Exam

### Special Reminder:

- 71b Sports Massage: Technique Demo and Practice – Pre-Event and Post-Event
  - Please wear athletic clothing to this class.
  - You will be giving and receiving several 10-minute pre- and post-event massages in an athletic context

### Preparation for upcoming classes:

- 70b Chair Massage, BMTs, Passive Stretches, and Side-lying Massage
  - Packet C: 11-12



# Classroom Rules

**Punctuality** - everybody's time is precious

- Be ready to learn at the start of class; we'll have you out of here on time
- Tardiness: arriving late, returning late after breaks, leaving during class, leaving early

**The following are not allowed:**

- Bare feet
- Side talking
- Lying down
- Inappropriate clothing
- Food or drink except water
- Phones that are visible in the classroom, bathrooms, or internship

*You will receive one verbal warning, then you'll have to leave the room.*

# Classroom Rules

## **Cell Phone – Turn it off!**



And put it away!



# 69a Introduction to Myofascial Release: The Structure and Function of Fascia

Class Handouts



# Structure

- What is this stuff?
- Where is it?
- How is it arranged?



# Elements of Fascial Structure – Types of Fascia

## Superficial

1. Located just beneath the skin – comprised of fat and connective tissue
2. It helps to insulate the body, provides a cushion against physical impact, and acts as an anchor for the skin.





# Elements of Fascial Structure – Types of Fascia

## Deep

1. Surrounds the muscles, bones, nerves, and blood vessels
2. Provides structural support and transmits the force generated by muscle contractions



# Elements of Fascial Structure – Types of Fascia

## Visceral

1. Surrounds and supports the internal organs
2. Keeps everything in place
3. Can glide against other fascia during bodily functions

# Elements of Fascial Structure

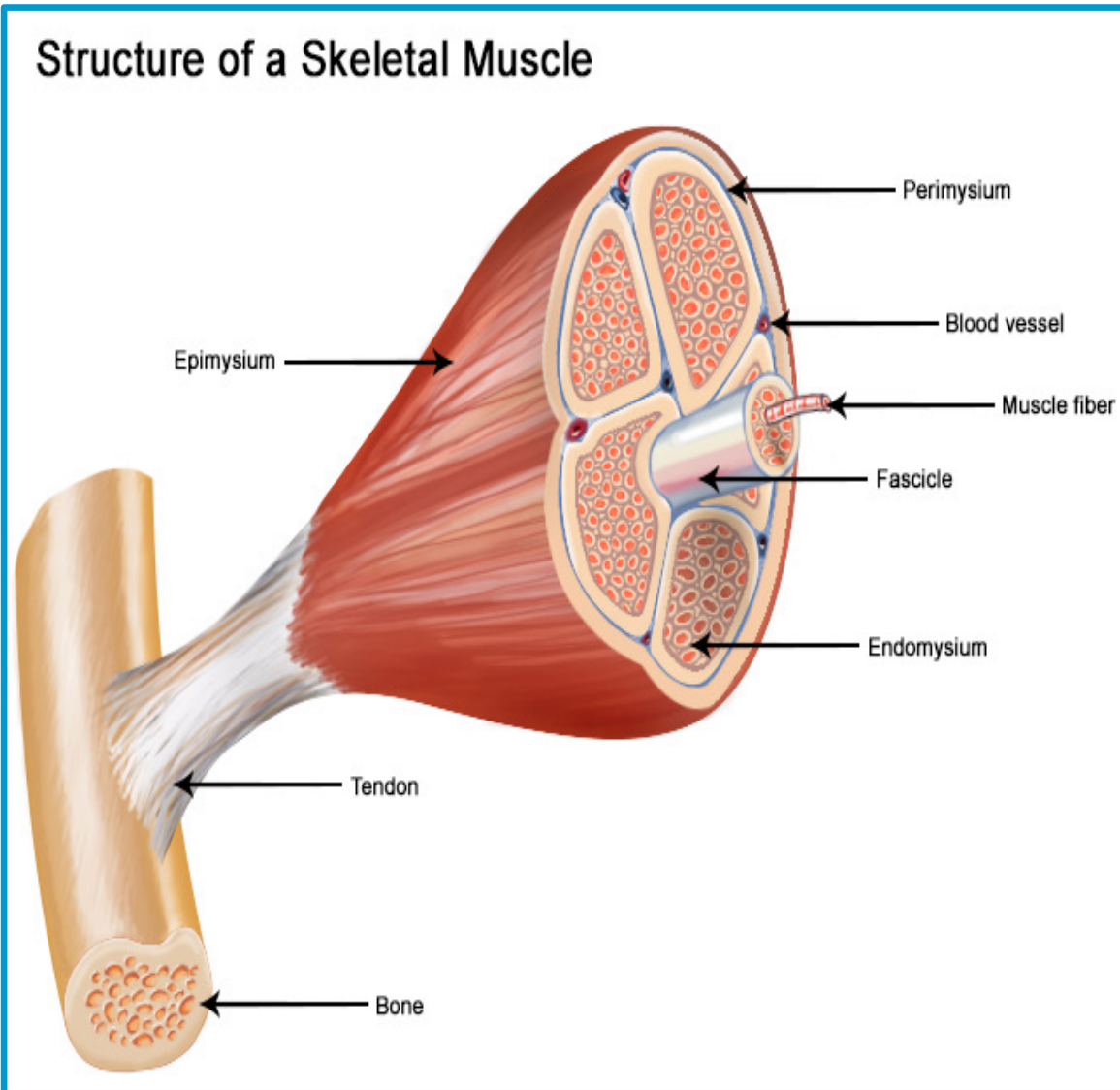
## ■ What is it?

- **Simply put:** It is composed primarily of collagen fibers.
- It is a continuous network of connective tissue that surrounds and supports structures throughout the body.



# Elements of Fascial Structure - Musculoskeletal

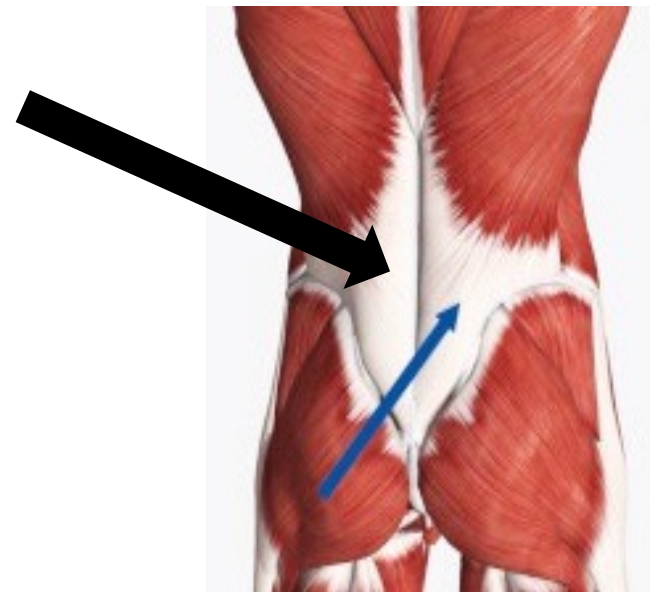
- Musculoskeletal fascia is continuous and surrounds every muscle, fascicle, and fiber from the top of your head to the plantar surface of the feet, and everywhere in between!



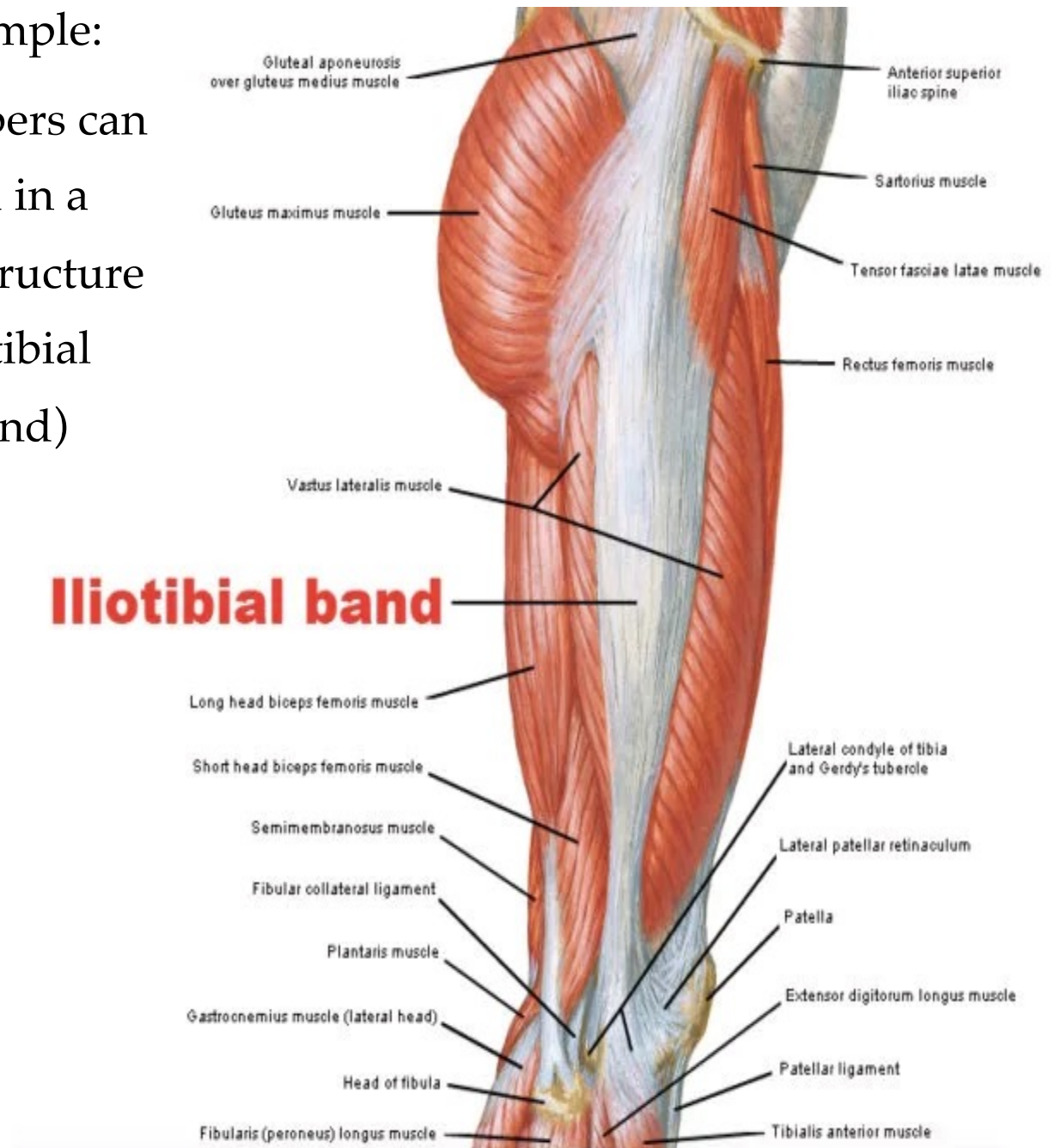
# Elements of Fascial Structure - Musculoskeletal

The fibers can be arranged in a variety of ways, which determine the **tensile strength** and stretchability of the particular structure.

- For example: An **aponeurosis** is a broad, flat sheet of fascia that can act as an anchor for many muscles pulling in different directions (Like the Galea Aponeurotica or **Thoracolumbar Aponeurosis**)



- Another example:  
Collagen fibers can  
be arranged in a  
**rope-like** structure  
like the Iliotibial  
Band (IT Band)





# Function

- How does it behave?
- Why and How can it “stretch” or “release”?



# How does fascia “behave”?

## ■ Fascia serves many functions:

1. **Structural Support** – helping to maintain the integrity of the body by providing a framework to help distribute mechanical stress during movement
2. **Protection** – cushioning muscles and organs
3. **Movement Facilitation** – transmitting mechanical forces generated by muscles
4. **Compartmentalization** – divides the body into “pockets” to determine direction of movement or to help contain infection or injuries
5. **Sensory function** – it contains sensory receptors that provide feedback about position and movement, playing a role in proprioception (our spacial awareness)





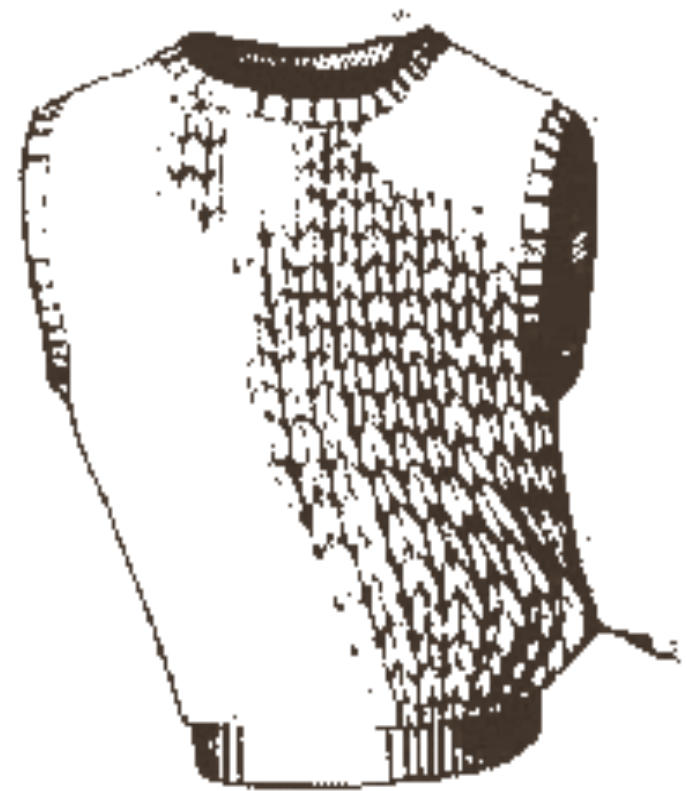
# Fascial Health – Why & how can it stretch?

- Fascia has elastic properties which allow it to stretch and return to its original shape (like a rubber band!)
- It also has “plastic” properties, meaning it can adapt to sustained tension by lengthening over time
  - This is evident in a person’s level of flexibility and range of motion
- Healthy fascia is well-hydrated, which aids in its ability to glide against other structures and maintain or increase a person’s flexibility and range of motion.
- Fascia is avascular (does not have blood supply), but it DOES have the ability to allow for blood-flow around and through its fibers – which is vital for health and mobility.

**LET’S WATCH “THE FUZZ” VIDEO!!!**

# How can fascia “stretch”?

- Any work you do affects the fascia of the rest of the body – like tugging on the thread of a knit sweater or a washcloth!
- Fascial lines work in diagonal or “X” patterns
  - Think of how this relates to the sweater:
  - When you pull in a longitudinal or latitudinal direction, there will not be as much translation of force as there would in a diagonal / oblique / bias stretch
  - There is much more translation of force in aponeuroses than strap or rope-like formations because of the need for a wider variety of action directions for pull.



Fascia has a few distinct patterns in the human body:





# Dysfunction

- What can go wrong?
- Why is it important to address?



# Elements of Fascial Dysfunction – What can go wrong?

## ■ Dehydration –

**when the body is deprived of adequate water, every fiber is affected**

- This can lead to fascial stiffness and adhesions

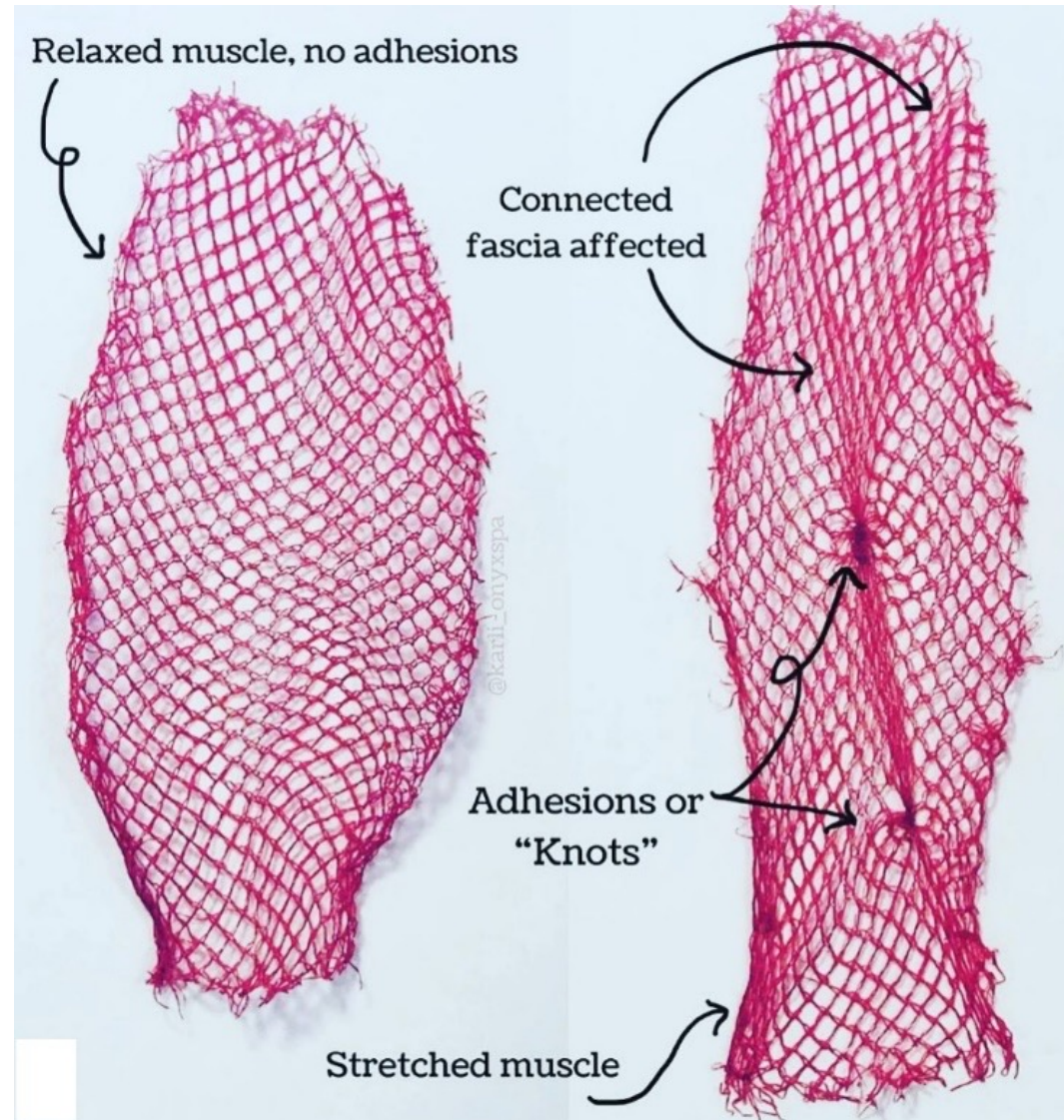
# Elements of Fascial Dysfunction – What can go wrong?

- **Adhesion =**  
**fancy word for**  
**“glue”**
  - Layers of fascia stick together, reducing mobility and causing pain

Has anyone here ever  
had or heard of  
a “knot”?

Guess what?

That’s an adhesion!





# Elements of Fascial Dysfunction – What can go wrong?



- Fasciitis = Inflammation of the fascia
- Plantar fasciitis affects the ...  
you guessed it ...  
plantar surface of the foot!



# How can LMTs help?

## ■ Assessment

- Observation of posture, movement patterns, compensations
- Palpation of superficial tissue and noticing areas of tension or restrictions

## ■ Soft tissue manipulation (the basic components in each MFR session)

- Slow, sustained pressure at an oblique angle
- No lubricant (also important that the client have no lotion on their bodies!)

## ■ Trigger Point therapy

- Using ischemic (or “pinpoint”) compressions

## ■ Stretching / Movement Integration

- Passive AND active





# How can LMTs help?

- Client feedback to ensure comfort and effectiveness
- Home care recommendations
  - Hydration
  - Stretches
  - Postural Awareness

*Engaging the client's participation  
is crucial to success!*



# How effective is MFR?

- Effectiveness may vary depending on factors such as:
  - the condition being treated
  - the skill level of the therapist
  - the frequency and duration of treatment.
- Numerous studies and clinical trials have demonstrated positive outcomes when MFR is incorporated into bodywork sessions.
  - improvements in pain reduction
  - increased range of motion
  - enhanced muscle flexibility
  - overall well-being for various conditions such as:
    - musculoskeletal disorders
    - chronic pain syndromes and
    - postural imbalances.



## 69a Introduction to Myofascial Release: The Structure and Function of Fascia