

Fascia in *Focus*

The Role of Fascia in Chronic Pain & Strategies for Use in Manual Therapy

A deep dive into fascial anatomy, chronic pain science, and the practical tools that transform patient outcomes.

Presented by Alison Slater

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Workshop Agenda

5 hours | Theory + Practical | Evidence-based throughout



10:30-10:45	INTRO	2:30-3:15	PRACTICAL
Welcome, Housekeeping and Introductions		Palpation & Assessment – Finding the Fascia	
10:45-12:30	THEORY	3:15-4:15	PRACTICAL
Fascial Anatomy & Physiology – The Essentials		Intervention Toolkit – Hands, IASTM, Rollers & Taping	
12:30-1:15	BREAK	4:15-4:30	APPLIED
Lunch		Home Care & Client Empowerment	
1:15-2:30	THEORY	4:30-4:45	WRAP-UP
Fascia & Chronic Pain – The Clinical Connection		Integration, Q&A & Closing	

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LEARNING OBJECTIVES

By the end of today, you will:

- 1 Understand the fundamentals of fascial anatomy and physiology
- 2 Identify how fascial dysfunction underlies chronic pain patterns
- 3 Recognise common patterns of fascial restriction in movement
- 4 Refine palpation to differentiate fascial strata effectively
- 5 Apply rollers, IASTM, taping, and manual techniques with confidence
- 6 Equip clients with evidence-informed, practical home care strategies



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SESSION 1

What IS Fascia?

"The organ of form and posture"

— Schleip, 2012



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Evolving Definition

Current Understanding

All collagenous connective tissues — from superficial skin to organ capsules — that form a body-wide tensional network.

The recommendation of the Fascia Nomenclature Committee (FNS) of the Fascia Research Society:

- **A fascia** is a sheath, or sheet, or any other dissectible aggregations of connective tissue that forms beneath the skin to attach, enclose and separate muscles and other internal organs.
- **The fascial system** consists of the three-dimensional continuum of soft, collagen containing, loose and dense fibrous connective tissues that permeate the body. It incorporates elements such as adipose tissue, adventitia and neurovascular sheaths, aponeuroses, deep and superficial fasciae, epineurium, joint capsules, ligaments, membranes, meninges, myofascial expansions, periosteal, retinacula, septa, tendons, visceral fasciae, and all the intramuscular and intermuscular connective tissues including endo-/peri-/epimysium. The fascial system surrounds, interweaves between, and interpenetrates all organs, muscles, bones, and nerve fibres, endowing the body with a functional structure, and providing an environment that enables all body systems to operate in an integrated manner.

<https://fasciaresearchsociety.org/>

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SESSION 1

What IS Fascia?

"The fascia gives one of, if not the, greatest problems to solve as to the part it takes in life and death. It belts each muscle, vein, nerve, and all the organs of the body. It is almost a network of nerves, cells and tubes running to and from it ... By its action we live and by its failure we shrink or swell and die".

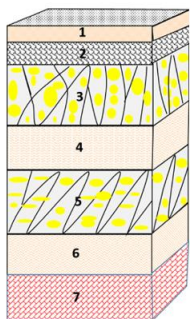
- Andrew Taylor Still, Father of Osteopathy (1828-1917; 1874 introduction of fascia)

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Evolving Definition

Three fascial subtypes

Superficial fascia (adipose layer), Deep fascia (dense fibrous investing layer), and Visceral fascia (organ membranes).

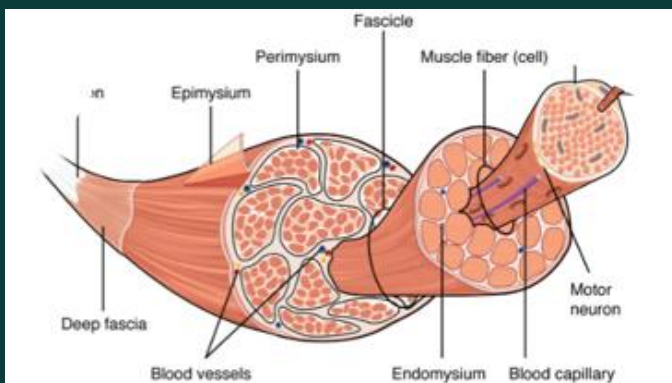


1. epidermis
2. dermis
3. superficial adipose tissue and retinacula cutis superficialis
4. superficial fascia
5. deep adipose tissue and retinacula cutis profunda
6. deep fascia*
7. Muscle



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The Intramuscular Connective Tissue



Source: Tami Apland, LMT

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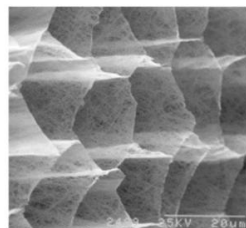
The Intramuscular Connective Tissue



Epimysium



Perimysium



Endomysium



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Source: Anatomy Trains®

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The Fascial Layers



From skin to organ — a continuous, integrated system - *Restrictions at ANY layer can create dysfunction across all layers*

1	2	3	4
<p>Superficial Fascia</p> <p>Immediately below dermis</p> <hr/> <p>Contains adipose tissue, neurovascular bundles. Acts as a gliding layer and thermal insulator. Rich in mechanoreceptors.</p>	<p>Deep Fascia</p> <p>Envelops muscles & compartments</p> <hr/> <p>Dense fibrous tissue investing muscles, forming compartments and sheaths. Transmits forces between structures.</p>	<p>Epimysium</p> <p>Wraps individual muscles</p> <hr/> <p>Continuous with tendons and periosteum. Force transmission and proprioceptive signalling at this level.</p>	<p>Visceral Fascia</p> <p>Organ membranes & meninges</p> <hr/> <p>Peritoneum, pleura, pericardium, dura mater. Often overlooked but implicated in chronic abdominal and pelvic pain.</p>

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SESSION 1

What IS Fascia?

"Fascia is a "hunting ground" where "more rich golden thought will appear to the mind's eye as the study of the fascia is pursued than any division of the body."

- Andrew Taylor Still, Father of Osteopathy (1828-1917; 1874 introduction of fascia)



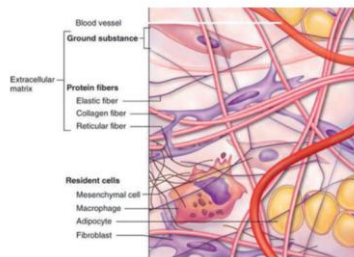
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Evolving Definition

The extracellular matrix (ECM)

A gel-like medium of collagen, elastin, hyaluronan, proteoglycans — the "ground substance" that surrounds every cell in the body.



Source: Kusindarta DL and Wihadmadyatami H (2018)

SESSION 1

What IS Fascia?

"The whole is pre-stressed into a state of balanced tension."

- Stephen Levin



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Evolving Definition

Biotensegrity

Fascia transmits force across the entire body through continuous tensional networks, not isolated muscle-bone units.

Biotensegrity Rewrites the Rules

Pre-stress & Resting Tone

The fascial web is always under tension — even at rest. This baseline pre-stress provides immediate stiffness without muscular activation, enabling rapid force response.

Omnidirectional Load Sharing

No single tissue bears isolated load. Tensional forces distribute simultaneously across the entire network, dramatically reducing peak stress on any one structure.

Non-linear Stiffness

Fascia stiffens progressively under load (strain-stiffening), offering compliance at low loads and protective rigidity at high loads — a biomechanically ideal behaviour.

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SESSION 1

What IS Fascia?

"Fascia is a proper organ system with unique macroscopic and microscopic properties, functions, and pathologies".

- **Carla Stecco**
Functional Atlas of the Human Fascial System (2015)



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Evolving Definition

Biotensegrity

Fascia transmits force across the entire body through continuous tensional networks, not isolated muscle-bone units.

Clinical Implications

- **Pain Referral:**
Injury at one node alters tension everywhere — explaining referred pain patterns that defy dermatomal maps.
- **Scar Tissue:**
Fascial adhesions distort global tension, causing remote dysfunction far from the lesion site.
- **Manual Therapy:**
Techniques like myofascial release exploit the continuous web — local touch creates systemic tensional change.
- **Movement Efficiency:**
Optimal biotensegrity posture minimises muscular energy cost by harnessing elastic pre-stress storage.

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SESSION 2

Fascia & Chronic Pain

The clinical connection

Peripheral Sensitisation

Injured/densified fascia releases inflammatory mediators (bradykinin, substance P), lowering nociceptor thresholds and generating ongoing pain signals.

Hyaluronan Densification

When fascia loses hydration and gliding capacity, hyaluronan polymerises — creating stiffness, restriction, and pain with movement. Reversible with appropriate treatment.

Myofascial Force Transmission

Pain remote from the lesion site. Myofascial chains explain why a hip restriction can manifest as shoulder or neck pain. Scar tissue deserves special mention here....

Central Sensitisation

Chronic fascial nociception upregulates dorsal horn neurons — widening the pain field and lowering the threshold. Treating fascia locally can reduce central load.



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SESSION 3

Palpation & Assessment

Finding the fascia — practical session

01 Skin Drag Test

Assess superficial fascial glide by dragging fingertips across the skin surface. Restriction = reduced elasticity and early resistance.

02 Fascial Recoil

Apply gentle sustained compression then release. Healthy fascia recoils evenly. Densified areas show sluggish, uneven response.

03 Layer Differentiation

Progressive sinking through skin → adipose → superficial fascia → deep fascia → muscle. Notice where resistance changes.

04 Listening & Unwinding

Hands-off — allow the tissue to guide movement. Indirect fascial technique to locate densification without imposing direction.



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SESSION 4

The Intervention Toolkit



Foam Rolling

Self-myofascial release

Compressive load + glide stimulates mechanoreceptors, reduces hyaluronan polymerisation, increases tissue hydration.

Key practice:

- 60–90 sec per region
- Slow, deliberate strokes
- Pause at restriction points

Not a replacement for manual therapy — best as prep or HEP.

IASTM

Instrument-assisted soft tissue mobilisation

Tools amplify therapist's sense of tissue. Proposed mechanisms: micro-trauma → fibroblast recruitment, fascial remodelling.

Key practice:

- 45–75° tool angle
- Lubrication essential
- Work with lymphatic drainage direction

Evidence is promising but limited. Technique and clinical reasoning matter more than the tool brand.

Kinesiology Taping

Decompression & sensory input

Lifting effect on superficial fascia creates decompression, alters nociceptive input, improves lymphatic flow.

Key practice:

- Decompression lift technique
- Fascial correction technique
- Neurological facilitation

Effect may be primarily neurological. Tape doesn't 'fix' fascia — it changes sensory input.

Manual Therapy

Hands-on fascial release

Sustained load → thixotropic response (gel → sol phase shift). Neurological input via Ruffini, Golgi, and interstitial receptors.

Key practice:

- Indirect (tissue ease)
- Direct (tissue barrier)
- Fascial unwinding

Intensity matters less than specificity. Slow, listening hands often outperform vigorous technique.

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Myth-Busting: What the Research Says



Evidence-based practice means being honest about what we don't know

MYTH

"Fascia can be permanently stretched or broken down"

Fascia responds to load but its plastic deformation is minimal. Neurological changes likely explain much of the immediate treatment response.

MYTH

"Foam rolling releases fascial adhesions"

The pressure required to deform deep fascia far exceeds what a roller can achieve. Neurological and hydrodynamic mechanisms are more plausible.

PARTIAL

"Fascia has contractile capacity"

Myofibroblasts can generate slow contractile forces (Schleip 2005). This is real but much slower than muscle — minutes to hours, not seconds.

SUPPORTED

"Fascia is important in chronic pain"

Strong evidence supports fascia's role in peripheral sensitisation, particularly thoracolumbar fascia in CLBP (Langevin 2011, 2022).

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SESSION 5

Client Empowerment & Home Care

The missing link in fascial treatment — compliance.

Sample HEP Card

- Morning: 2 min thoracic roller (foam)
- Work break: Calf rolling 60 sec each
- Evening: Hip flexor sustained release
- Throughout day: 8 glasses water
- 3x per week: 10 min movement flow



1 Teach the 'why'

A client who understands their tissue will do their exercises. Use simple analogies — 'like a sponge that needs squeezing and re-hydrating'.

2 Start with 5 minutes

Compliance plummets above 10 minutes. Design protocols that are achievable — clients will expand them once they feel results.

3 Movement variability

Fascia needs multi-directional load. Encourage varied movement, not just stretching. Walking, swimming, yoga all contribute.

4 Hydration matters

Ground substance viscosity responds to hydration. 2–3 litres daily directly affects fascial gliding capacity.

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Key Takeaways

- ✓ Fascia is a continuous, body-wide tensional network — not isolated wrapping
- ✓ Peripheral sensitisation of fascia is a legitimate mechanism in chronic pain
- ✓ Hyaluronan densification is reversible — movement and treatment restore glide
- ✓ No single tool is superior — the combination and clinical reasoning matter
- ✓ Home care compliance is the amplifier of all in-clinic work
- ✓ Stay sceptical, stay curious — the research is still evolving



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