

Webinar Goal

Explore the assessment and treatment of one of the most common low back pain problems

Logistics

- Time: 1 hour
- Schedule:
 - Presentation 30–40 min
 - Questions 15–20 min
- Ongoing questions: Use Question box.
 If I don't get to your question, ask me on my Facebook page after the webinar.

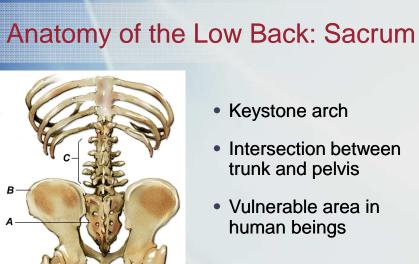
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Questions to Keep in Mind

- 1. How many layers of sacroiliac ligaments are there?
- 2. What is the most common referred pain pattern when the sacroiliac ligaments are injured?
- 3. What are the two assessment tests that will most likely be painful with this condition?
- 4. What does sciatica really mean?
- 5. Which position puts more stress on the discs and ligaments in the low back?

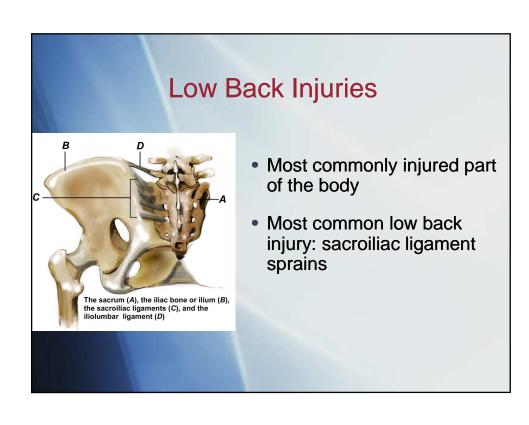
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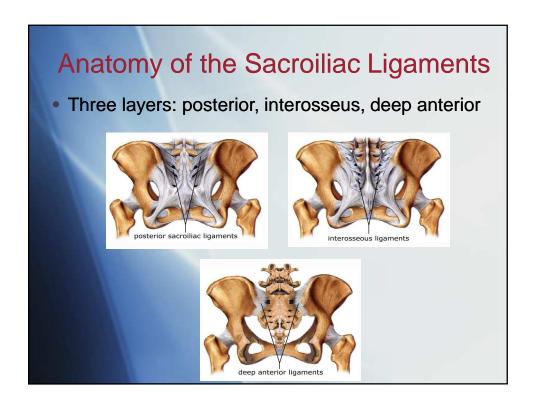


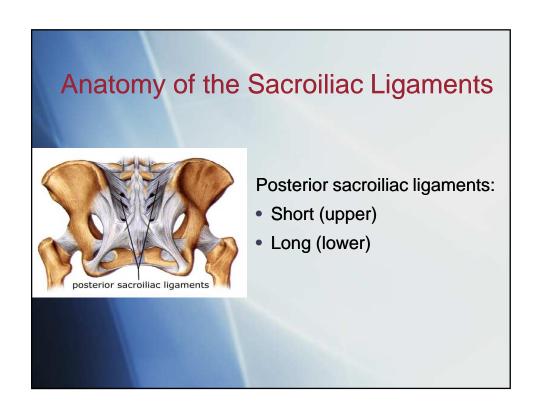


The lower back showing the sacrum (A), the ilium (B), and the lower-back vertebrae (C)

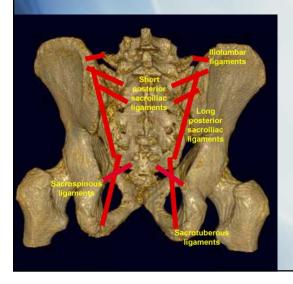
- Keystone arch
- Intersection between trunk and pelvis
- Vulnerable area in human beings







Anatomy of the Sacroiliac Ligaments



Posterior sacroiliac ligaments:

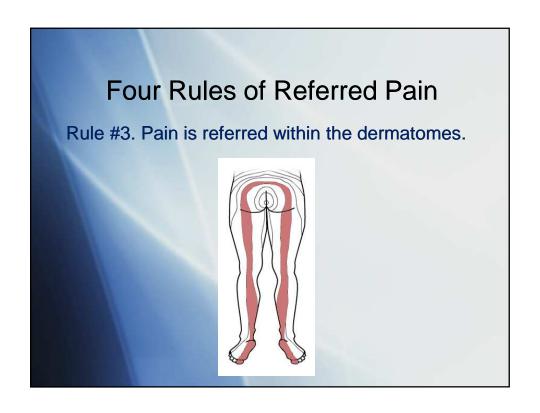
- Short (upper)
- Long (lower)

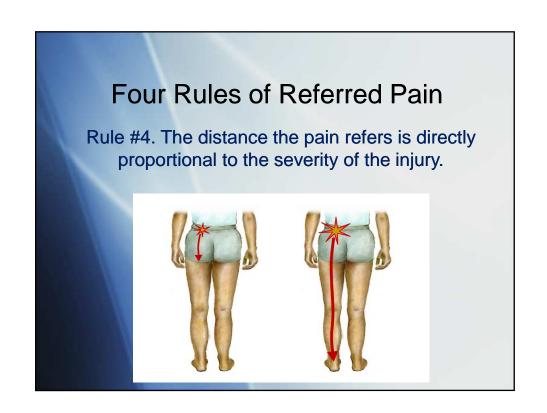
Referred Pain

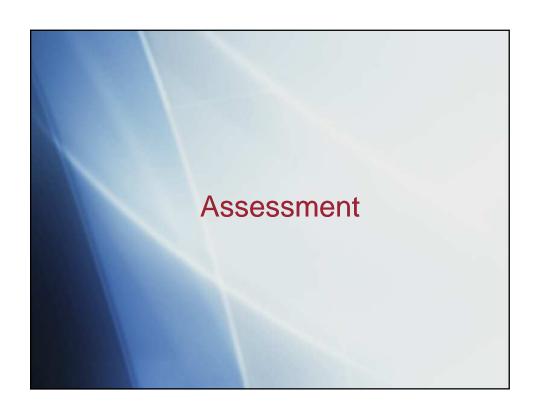
Definition: Pain felt at a distance from its source.

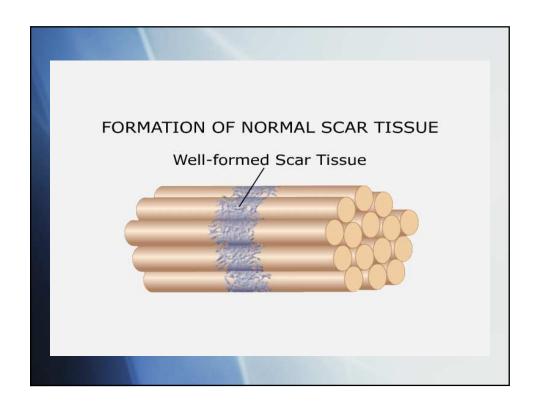


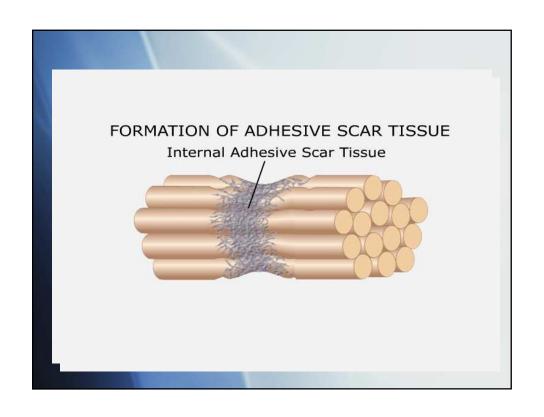


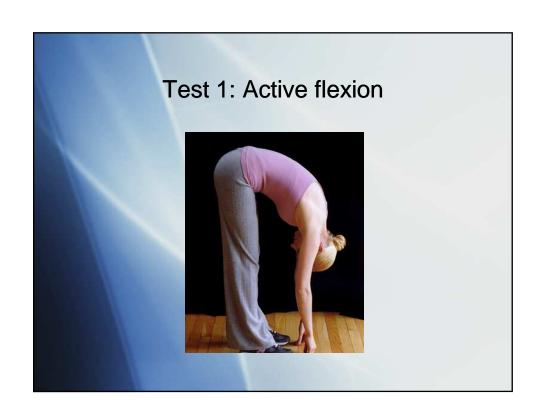


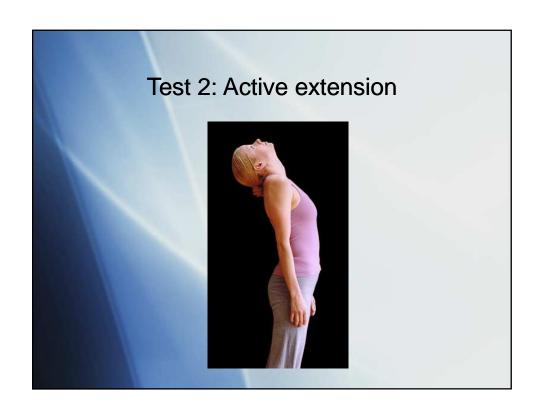


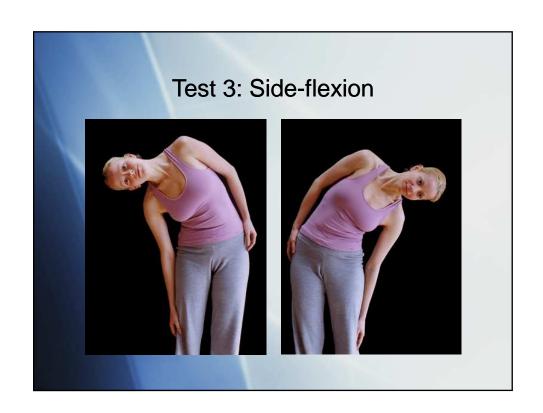


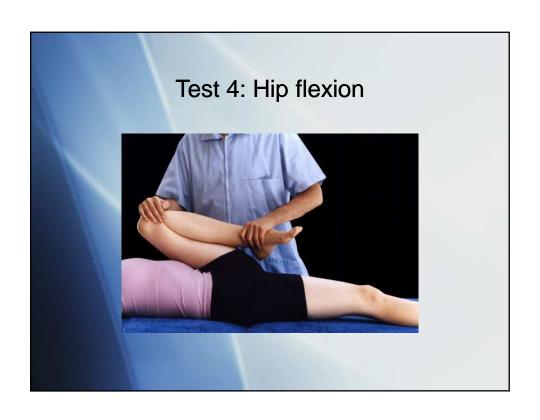


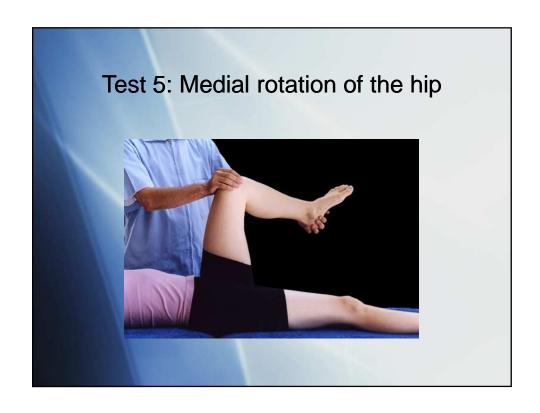


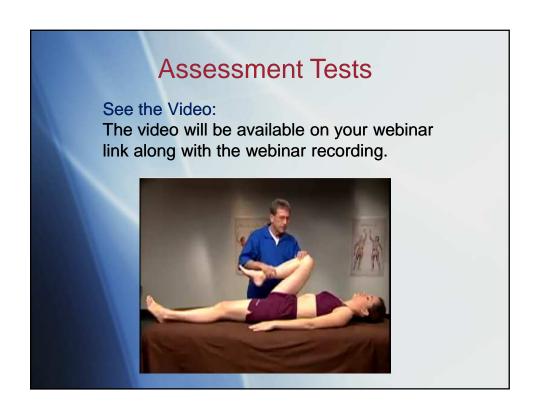


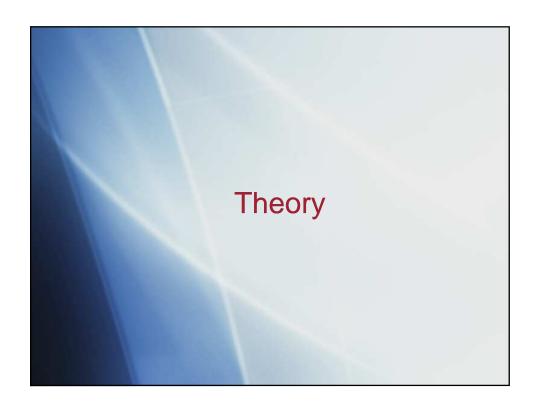


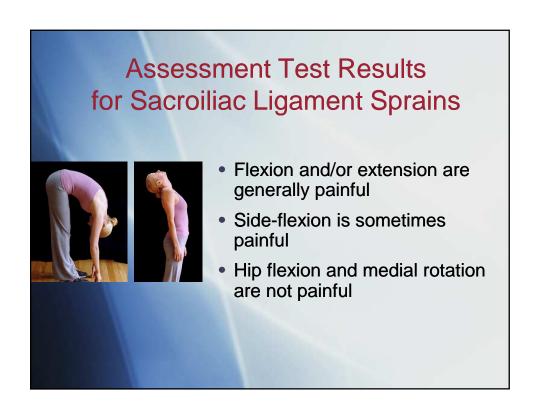
















Sciatica Definition: Pain down the thigh, or down the thigh, low leg, and foot



Four Typical Stories

- 1. Sudden onset, then no pain
- Slow onset with increasing frequency of painful episodes
- 3. Excruciating pain, fixed in deviation, slowly diminishing over time.
- 4. Chronic pain, either mild or very severe that remains

Four Typical Stories 1. Sudden onset, then no pain

Four Typical Stories

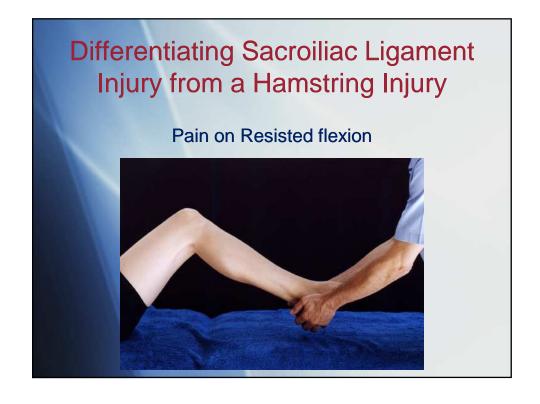
2. Slow onset with increasing frequency of painful episodes

Four Typical Stories 3. Excruciating pain, fixed in deviation, slowly diminishing over time.

Four Typical Stories

4. Chronic pain, either mild or very severe that remains





Differentiating Sacroiliac Ligament Injury from Disc Injury

Disc Injuries	Ligament Injuries
2–5% of back injuries	90% of back injuries
Unilateral weakness at a specific nerve root level	General weakness in the legs due to disuse
May involve reflex changes at L3, L5, S1, and S2	Reflex changes very rare
Referred pain within the dermatome that is more distal	Referred pain within the dermatome that is more proximal
Asymmetrical pain limitation	Pain and limitation on articular movements
No pain on palpation, unless ligaments are injured	Local and referred pain on ligament palpation

Differentiating Sacroiliac Ligament Injury from Disc Injury

Disc Injuries

2-5% of back injuries

Unilateral weakness at a specific nerve root level

May involve reflex changes at L3, L5, S1, and S2

Referred pain within the dermatome (distal)

Asymmetrical pain limitation

No pain on palpation, unless ligaments are injured

Differentiating Sacroiliac Ligament Injury from Disc Injury

Ligament Injuries

90% of back injuries

General weakness in the legs due to disuse

Reflex changes very rare

Referred pain within the dermatome (proximal)

Pain and limitation on articular movements

Local and referred pain on ligament palpation

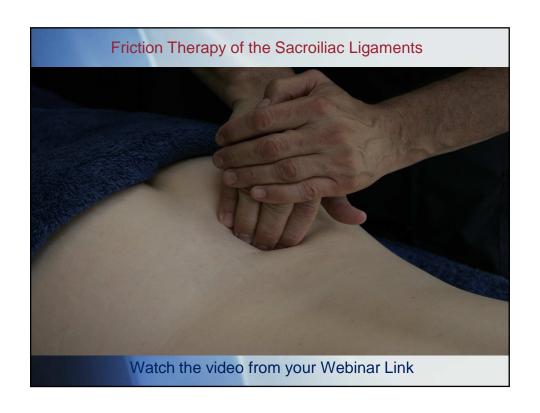
Direct & Indirect Causes of Pain

Examples:

- Direct ligament sprain
- Indirect misalignment, chronic contraction, movement habits, etc.

It is important to address both types of causes.

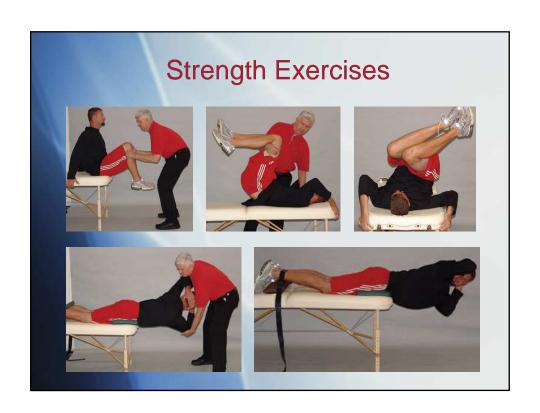


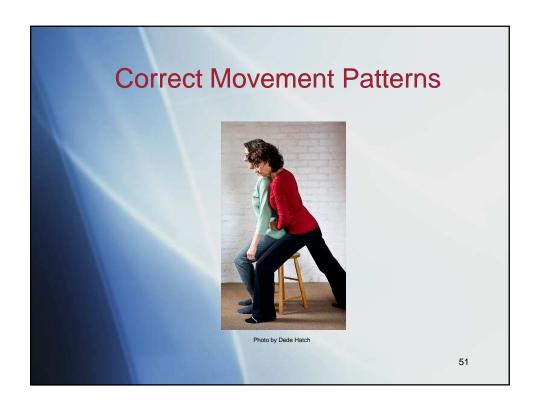












Referrals

- Alexander Technique or Feldenkrais practitioner
- AIS practitioner to increase flexibility and strength
 - Stretched out ligaments = prolotherapy (Ongley Institute: www.theongleyinstitute.com)

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Unraveling the Mystery of Low Back Pain

- 1. Sacroiliac Dysfunction
- 2. Client History and Treatment Options
- 3. Iliolumbar Ligament Sprains
- 4. Sacrotuberous Ligament Sprains
- 5. Supraspinous Ligament Sprains
- 6. Muscle Injuries
- 7. Clinical Reasoning

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