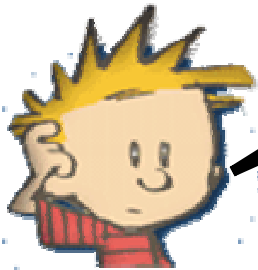


Evaluation of the Thoracic & Lumbar Spine



HISTORY

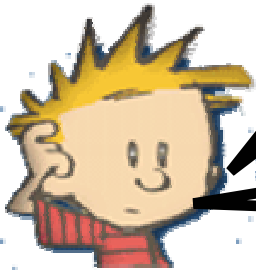
*Remember the
questions from
lecture #2?*



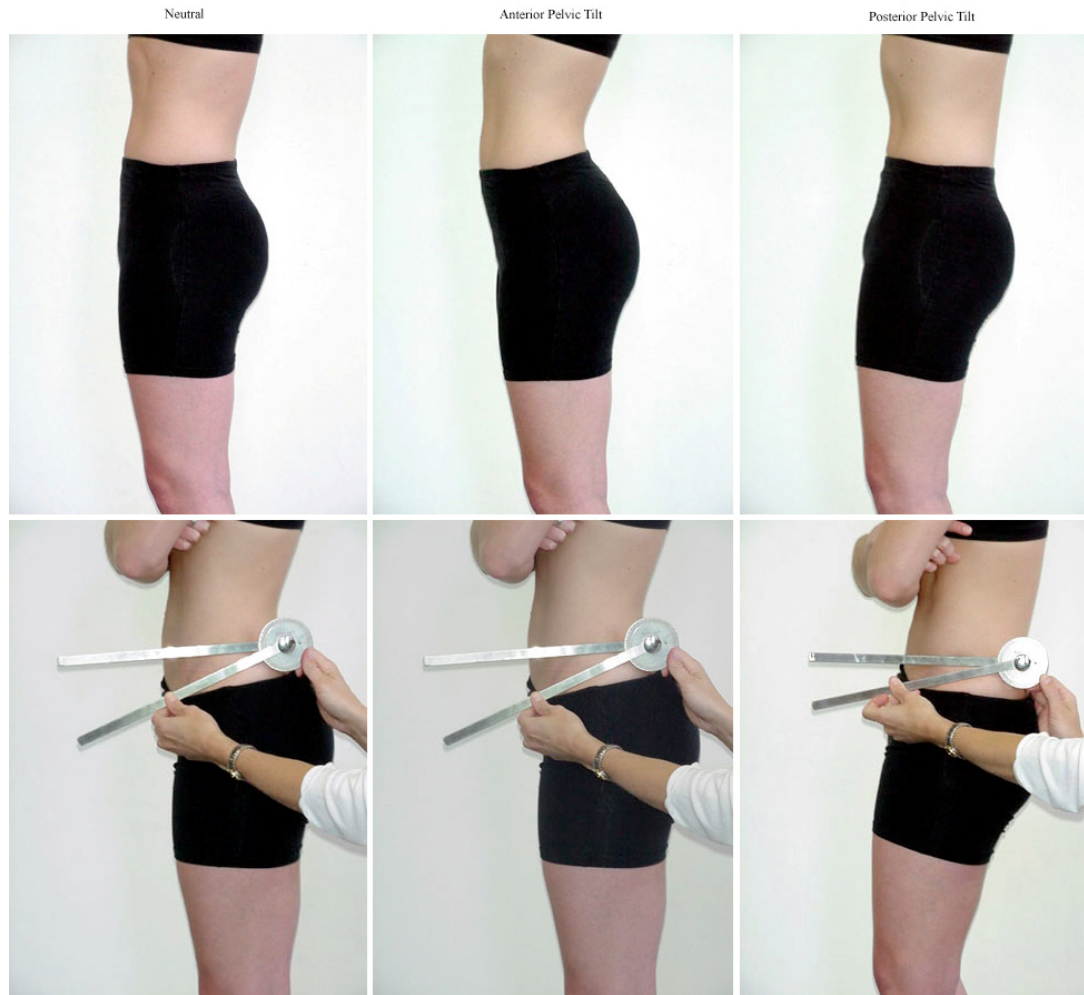
OBSERVATION

*Remember what to
look for from lecture
#2?*

*Some unique things
to look at with the
spine*



Pelvic Tilt / Lumbar Curvature



Postural Faults - Sagittal



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Lordosis



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Sway Back



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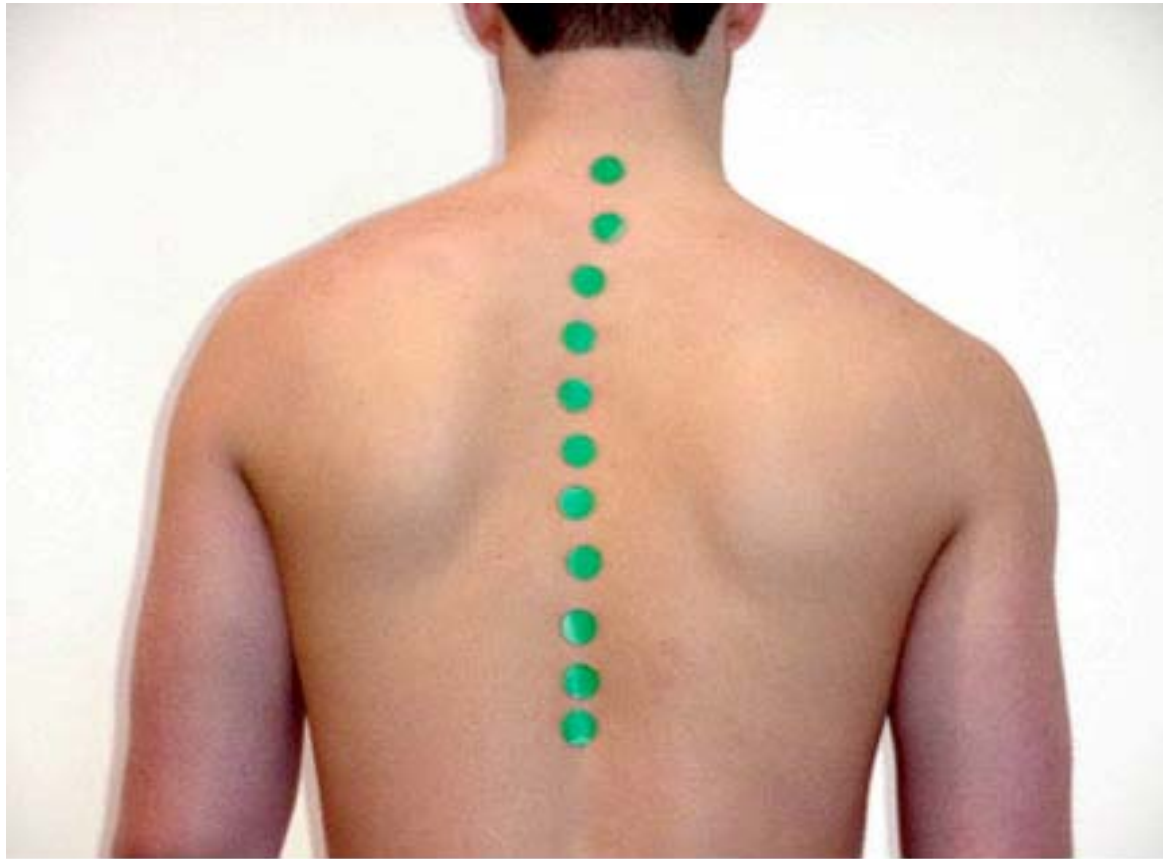
Kyphosis



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Flat Back

Postural Faults - Frontal



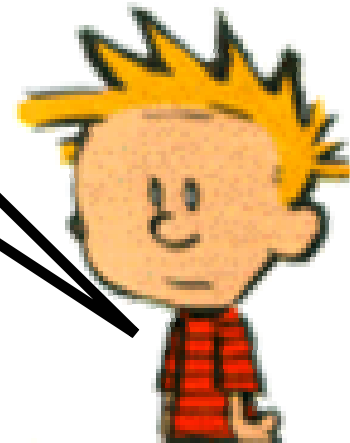
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Does the scoliosis disappear with flexion?



PALPATION

It's easy to get lost!



Thoracic Landmarks

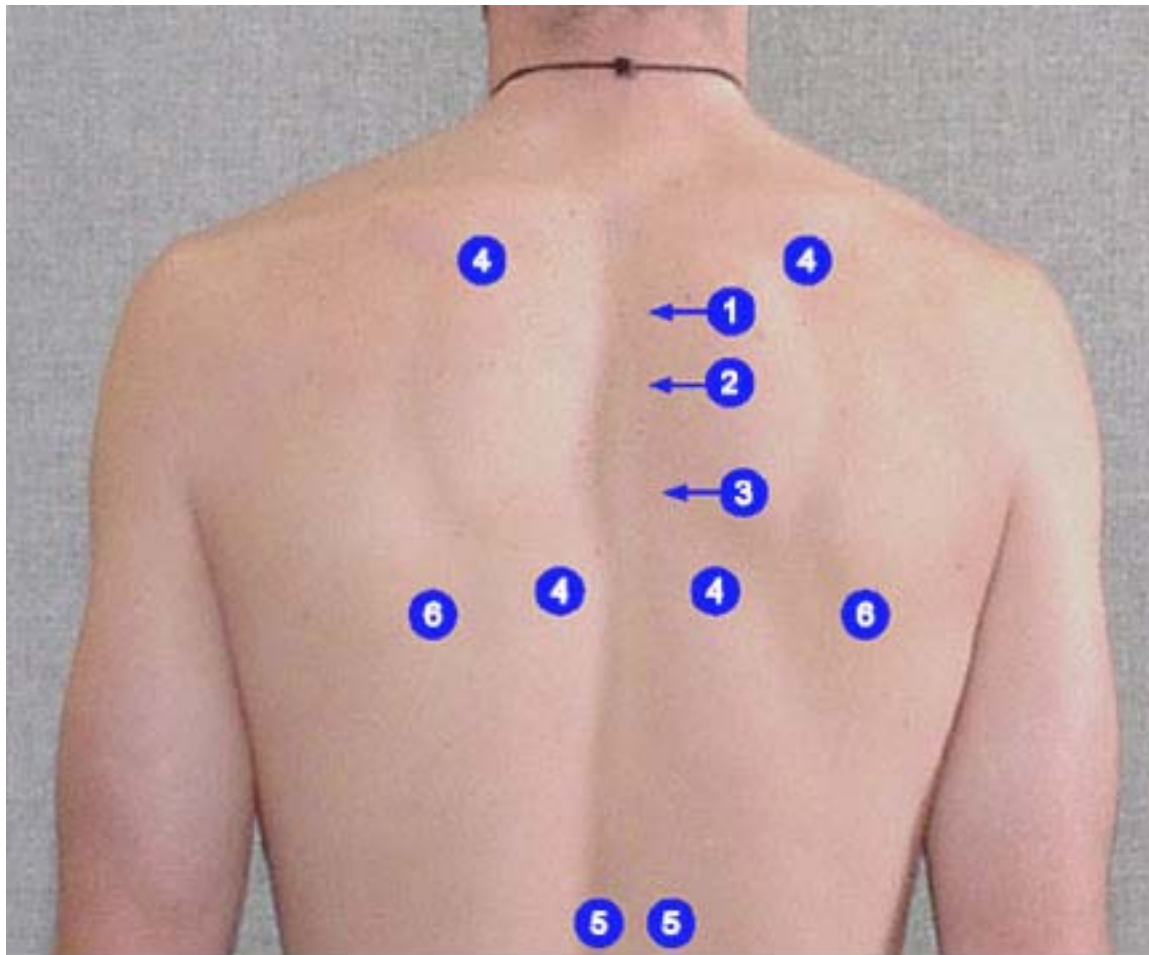
T1	Prominent; inferior to C - spine
T2	Posterior from jugular notch
T3	Even with medial border of scapula
T7	Even with inferior angle of scapula

Thoracic Rule of 3's

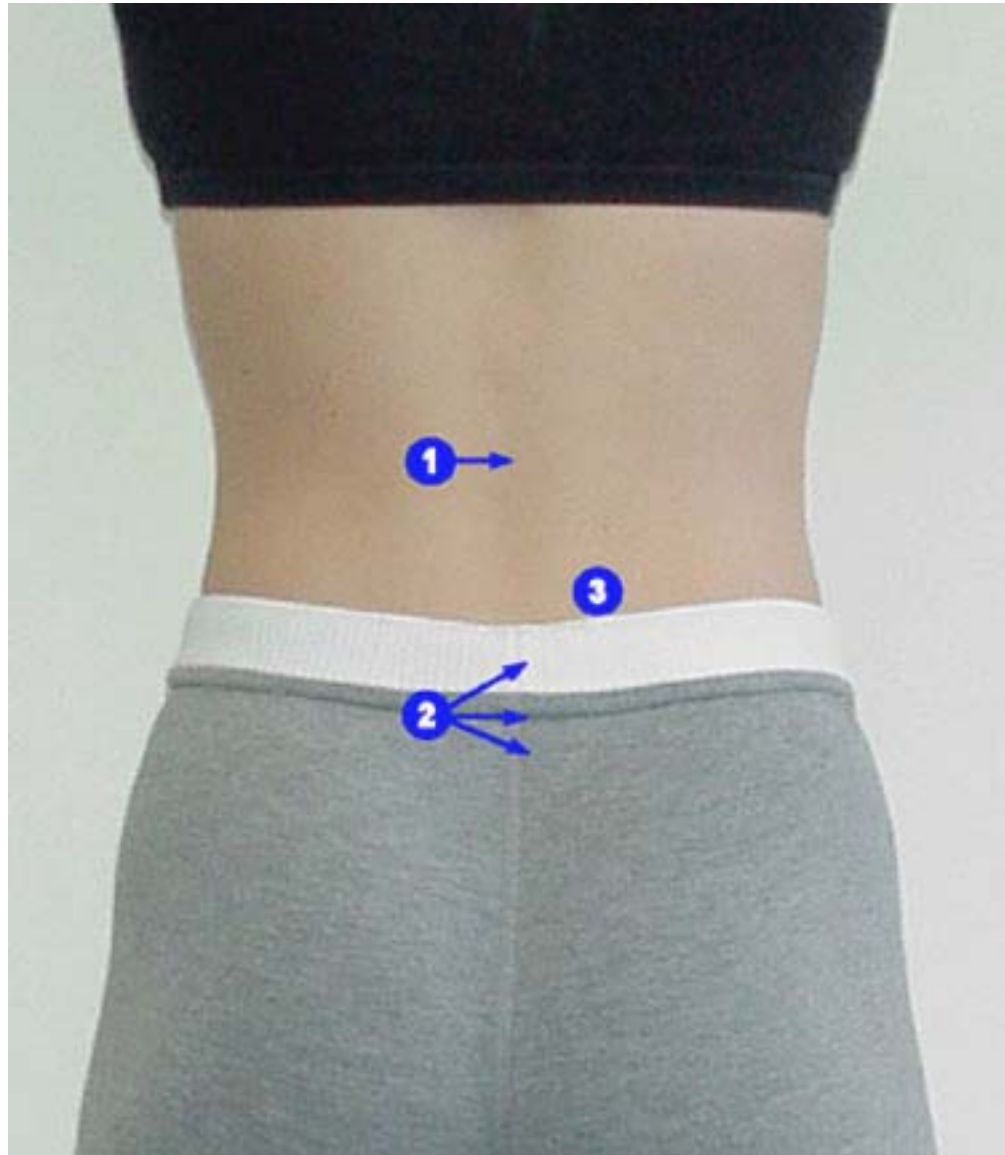
T1-T3	Same level
T4-T6	Midway between
T7-T9	One below
T10	One below
T11	Midway between
T12	Same level

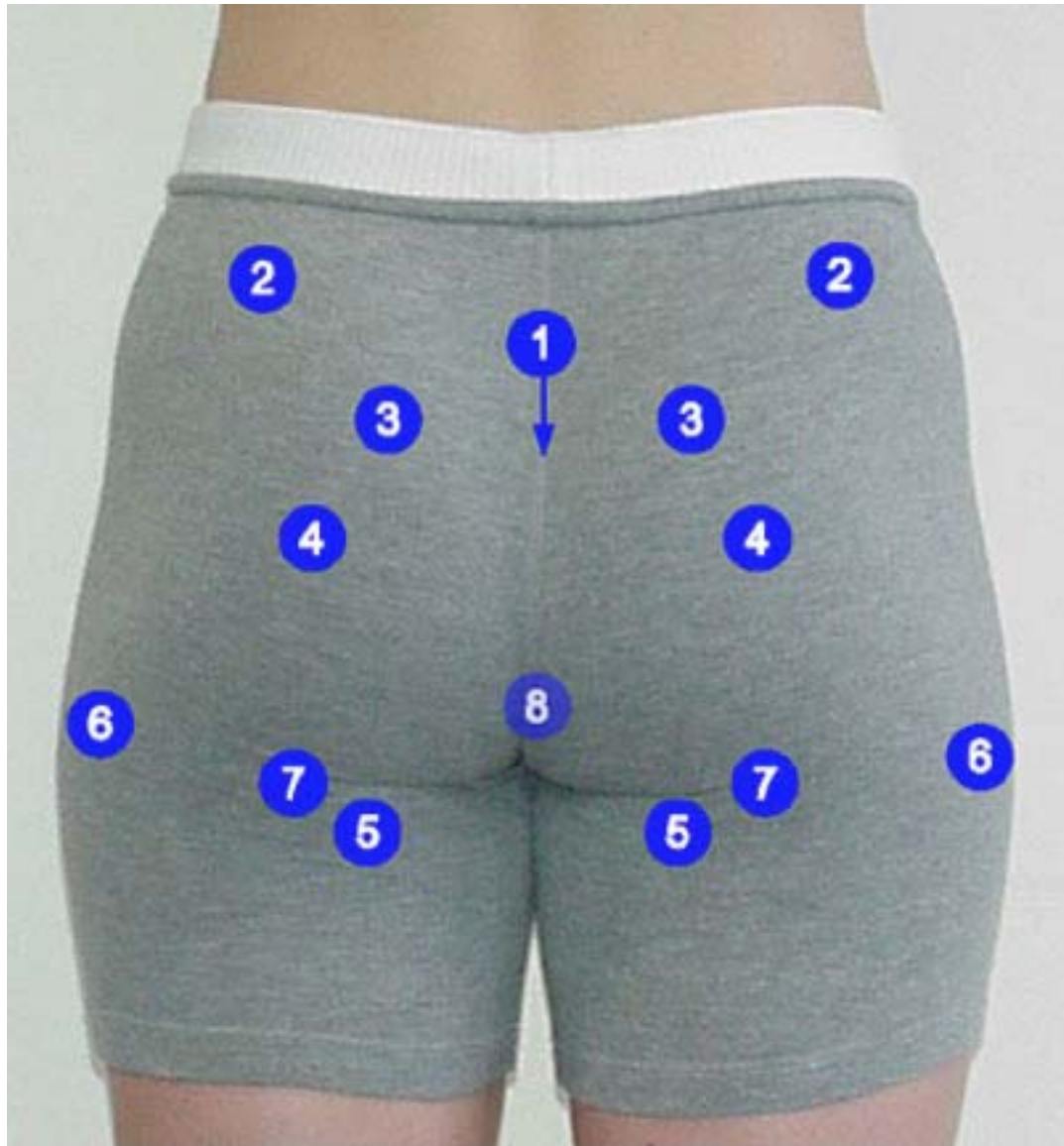
Lumbar / Sacral Landmarks

L3	Posterior to umbilicus
L4	Level with iliac crest
L5	Bilateral Dimples
S2	PSIS



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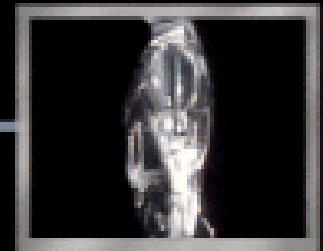
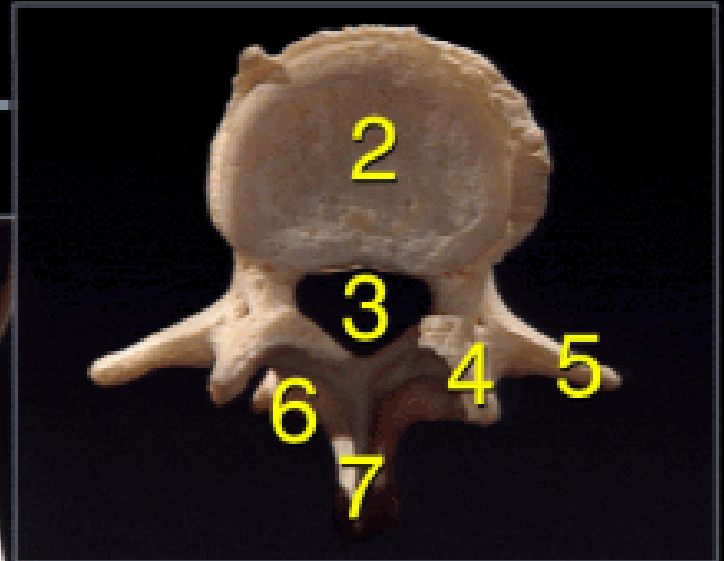
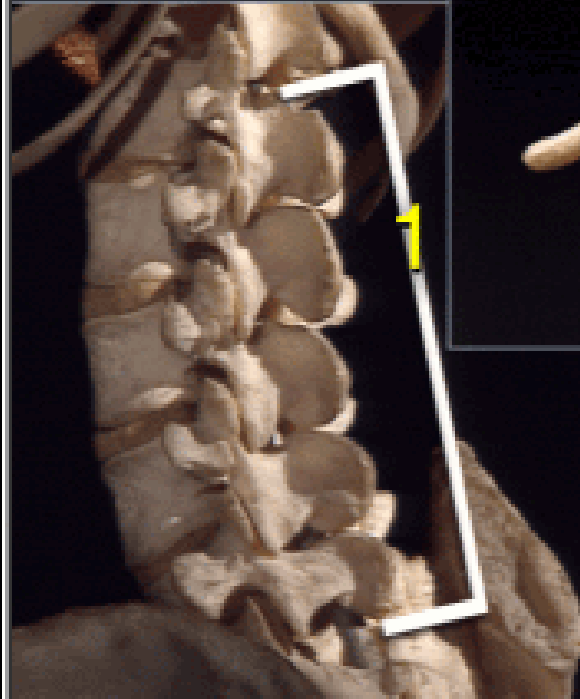
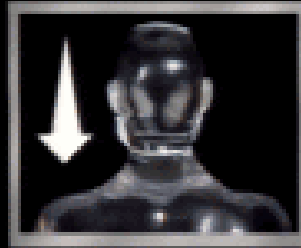
STRESS

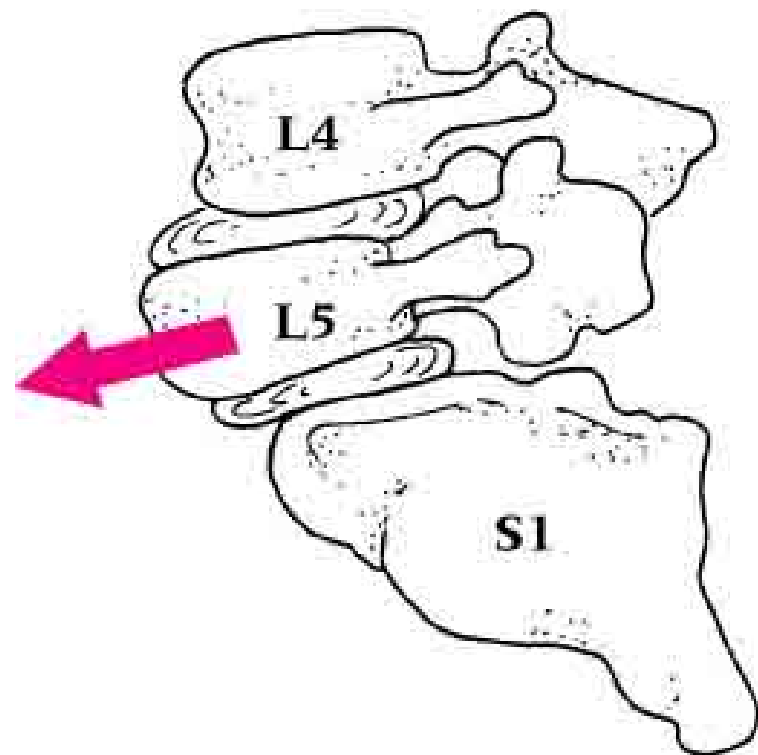
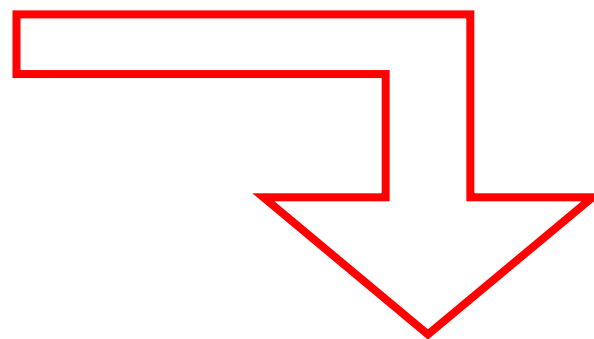
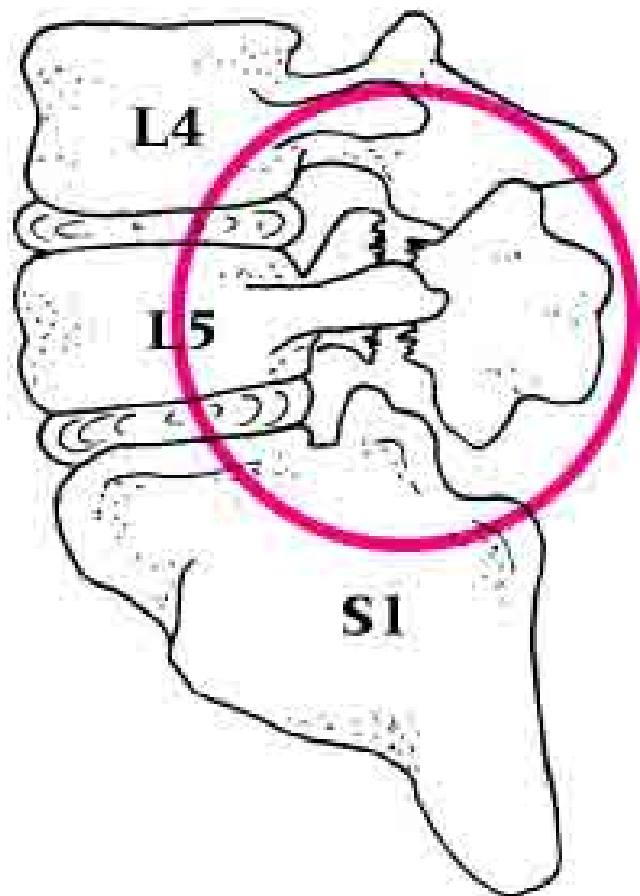
- Bone
- Joint
- Muscle / Tendon
- Nerve
- Vascular

BONE

Vertebrae

Copyright 1997 The Anatomy Project



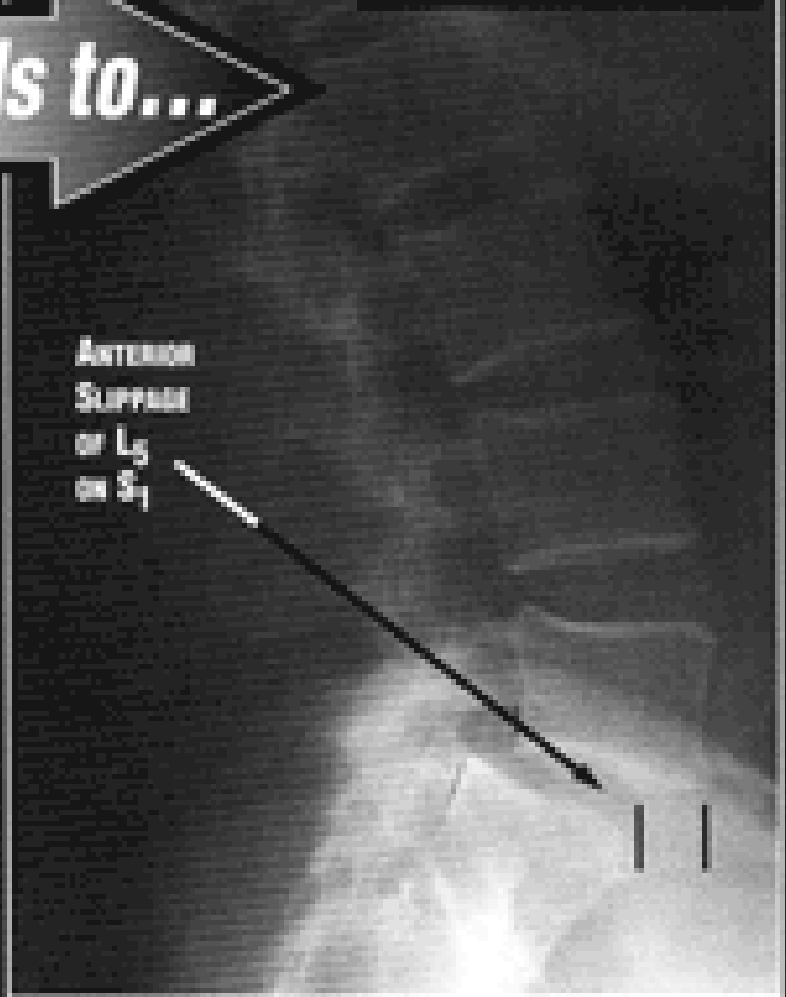


SPONDYLOLYSIS



Leads to...

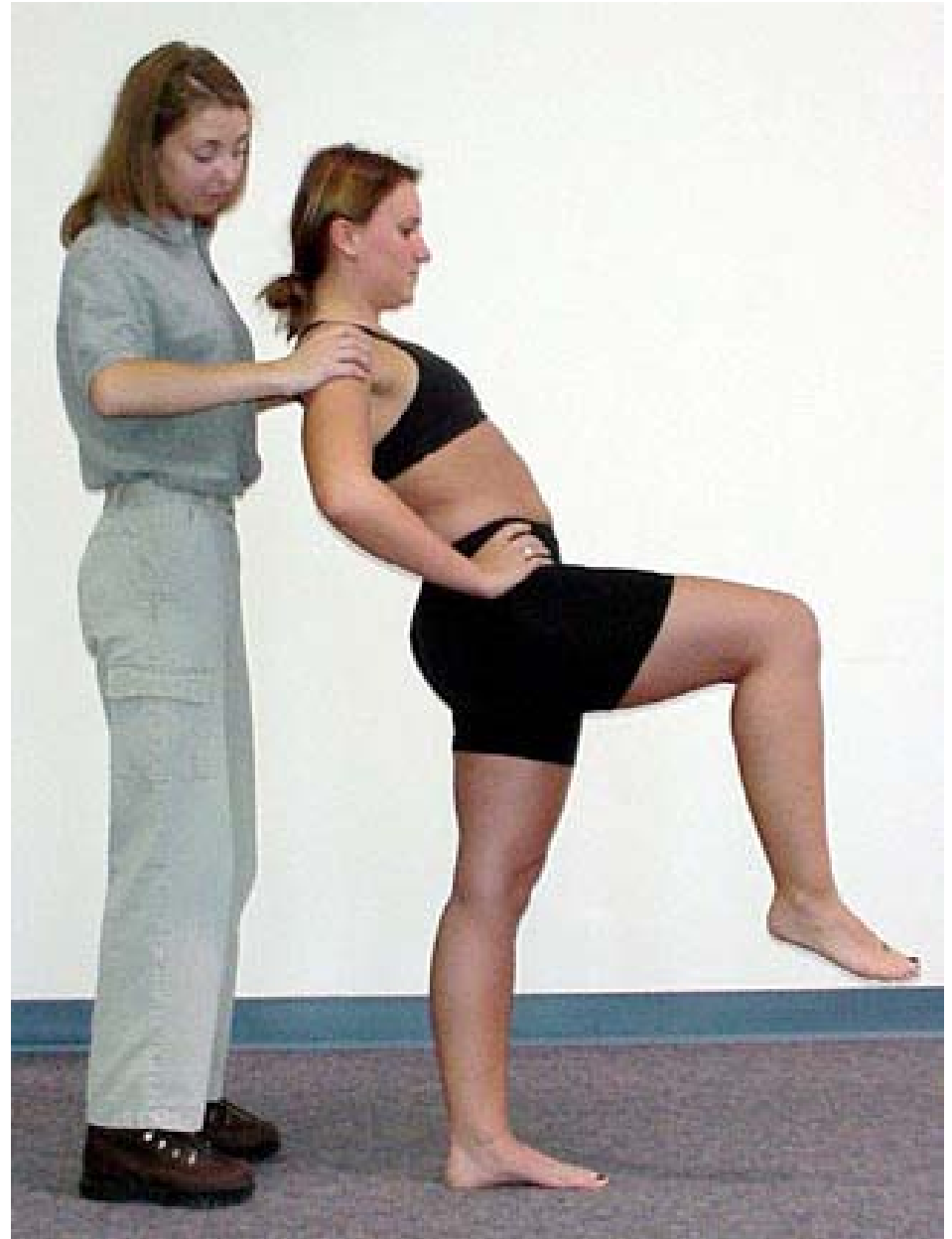
SPONDYLOLISTHESIS



Spondylolisthesis and Spondylolysis

Fractures of the vertebrae occur at the pars interarticularis (spondylolysis) and can lead to subluxation of the vertebrae (spondylolisthesis). Prolotherapy is very effective at eliminating the pain.

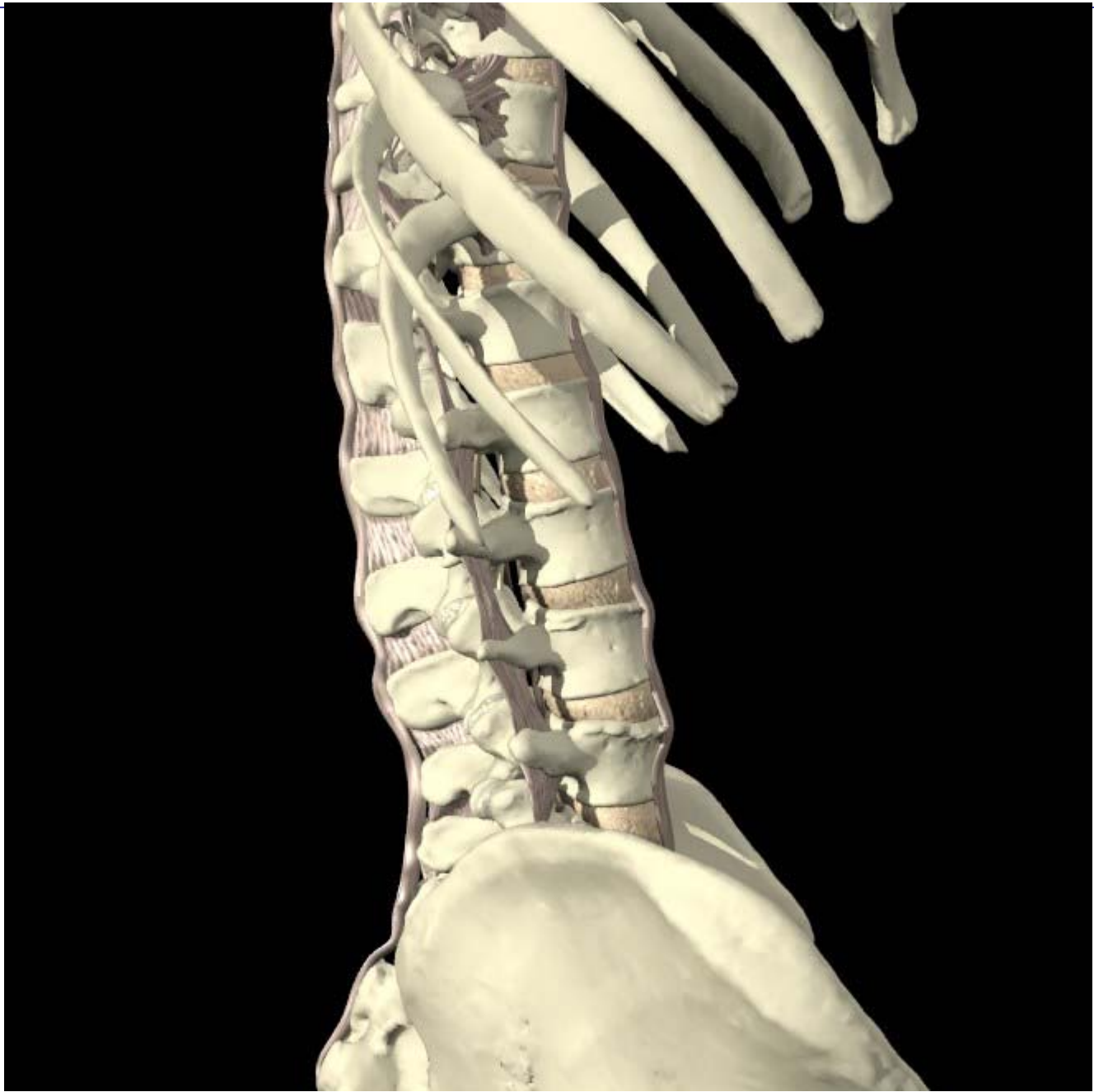
Single Leg Stance



JOINT

Ligaments







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SI Compression / Distraction



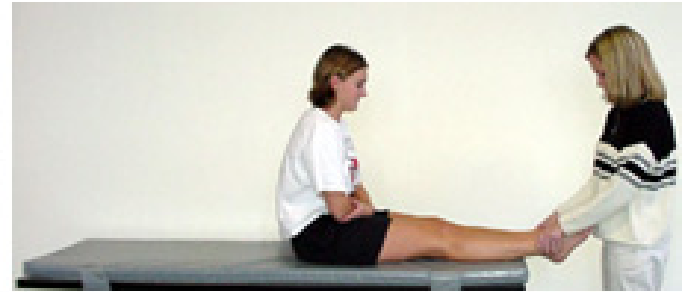
FABERE / Patrick



Gaenslen's Test



Long Sit



Anterior Rotation



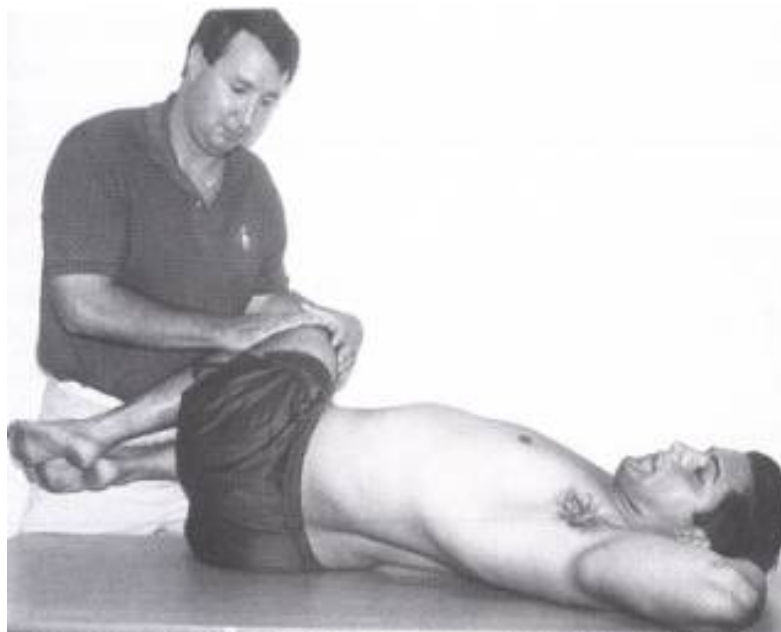
Posterior Rotation



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Left Leg

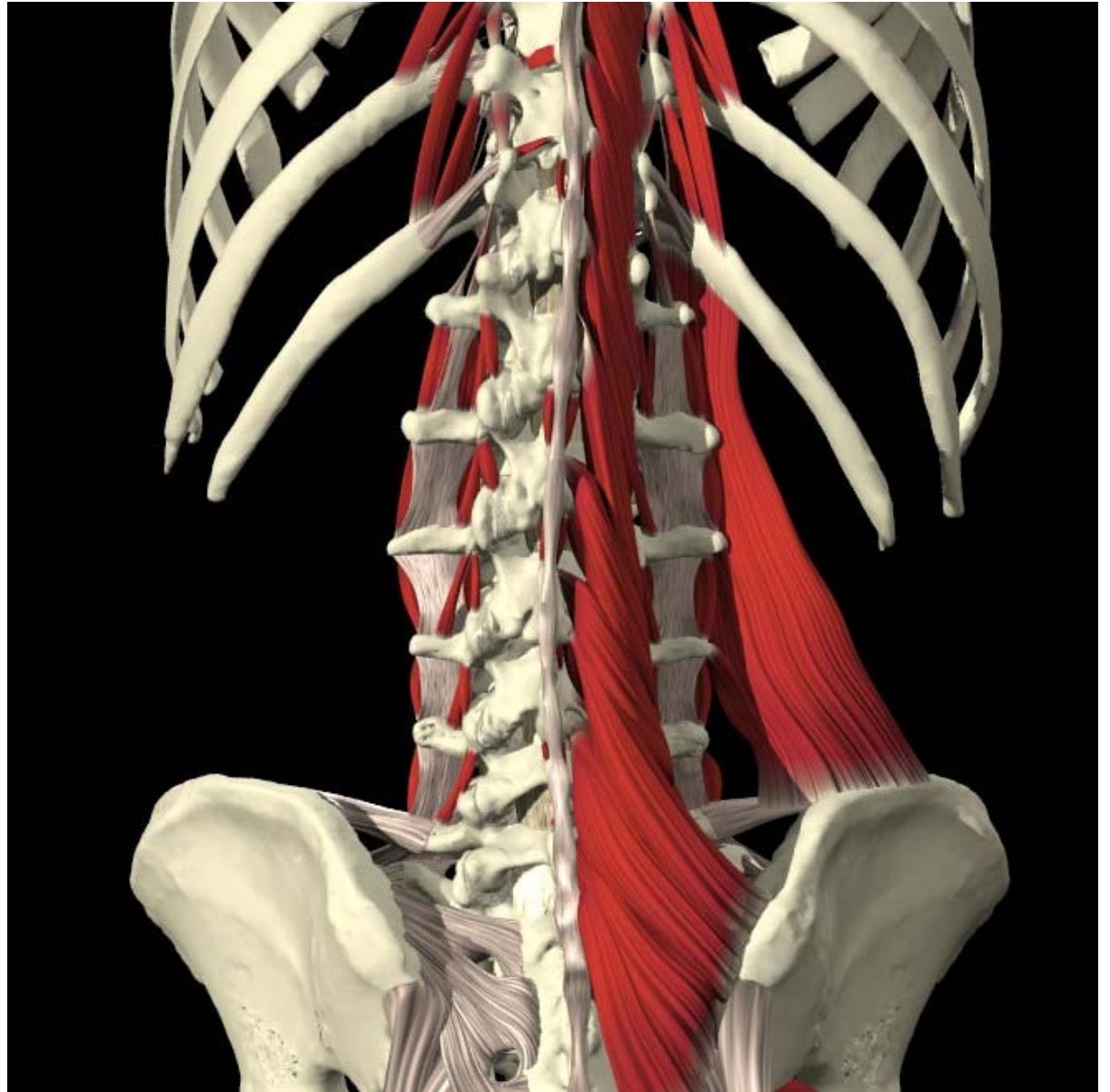
Passive ROM



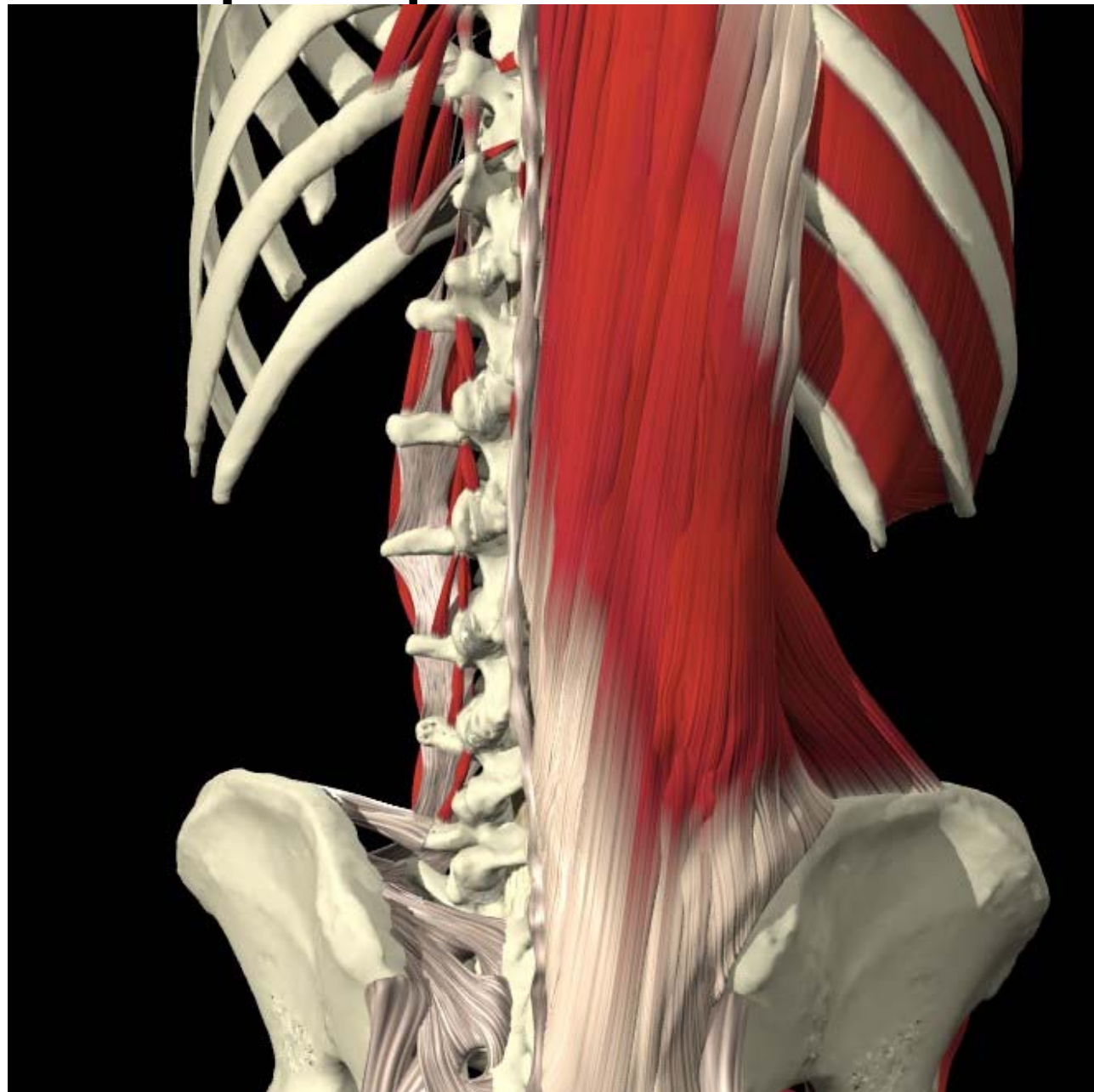
MUSCLE

Muscles

Deep







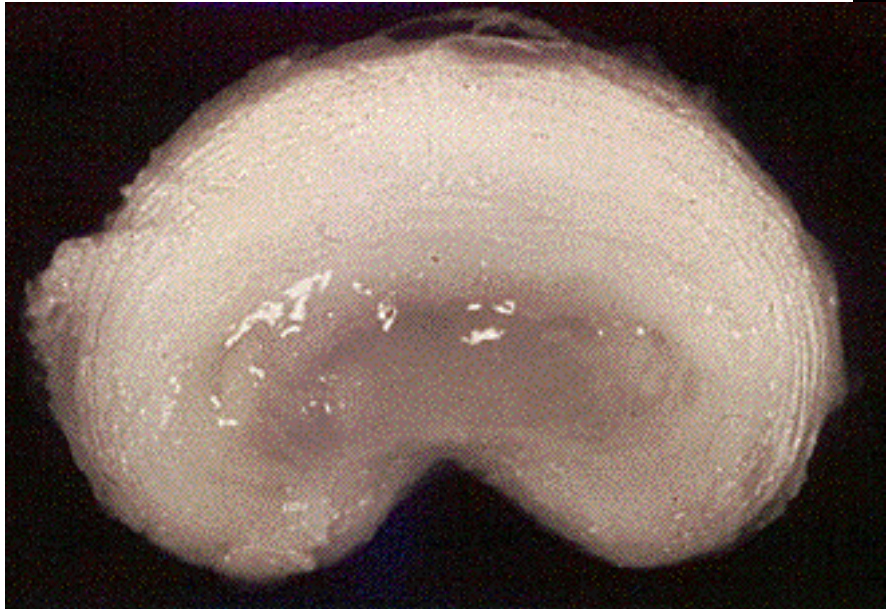


Active / Resisted ROM

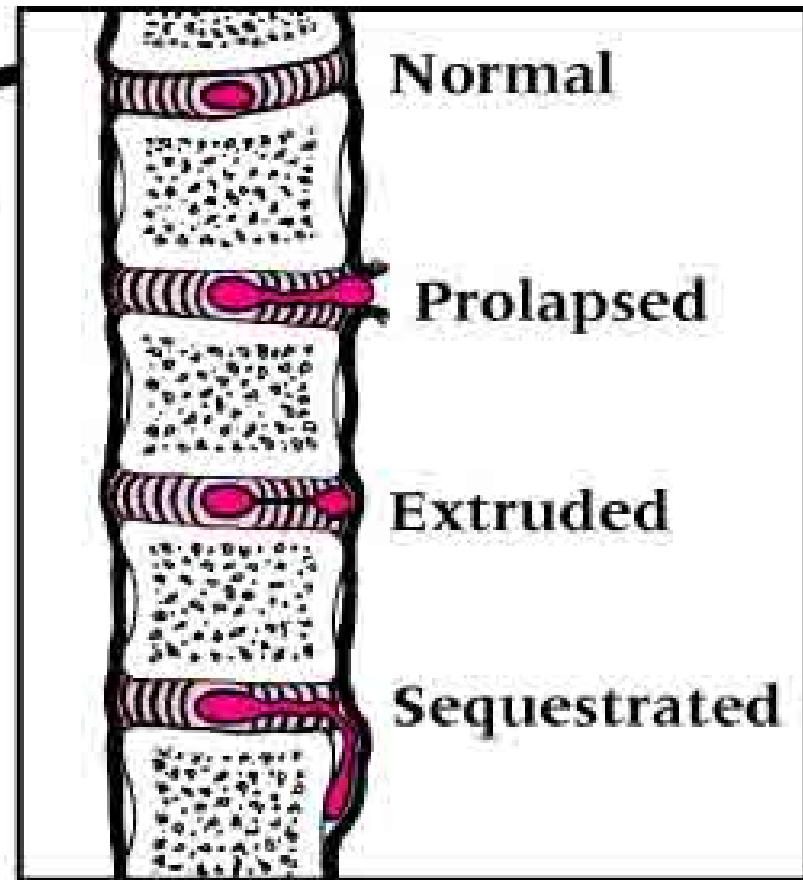
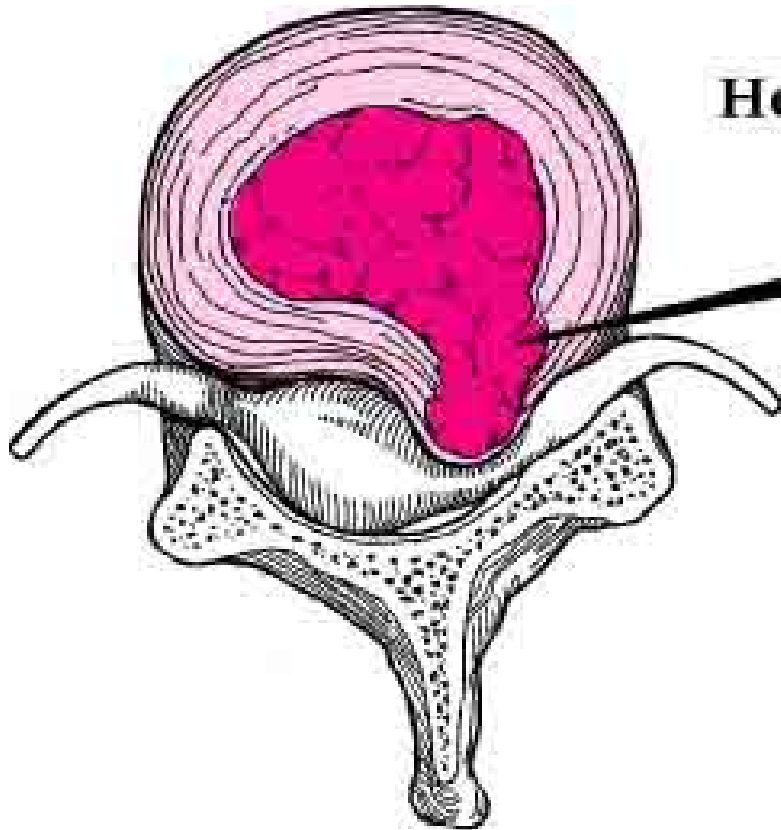


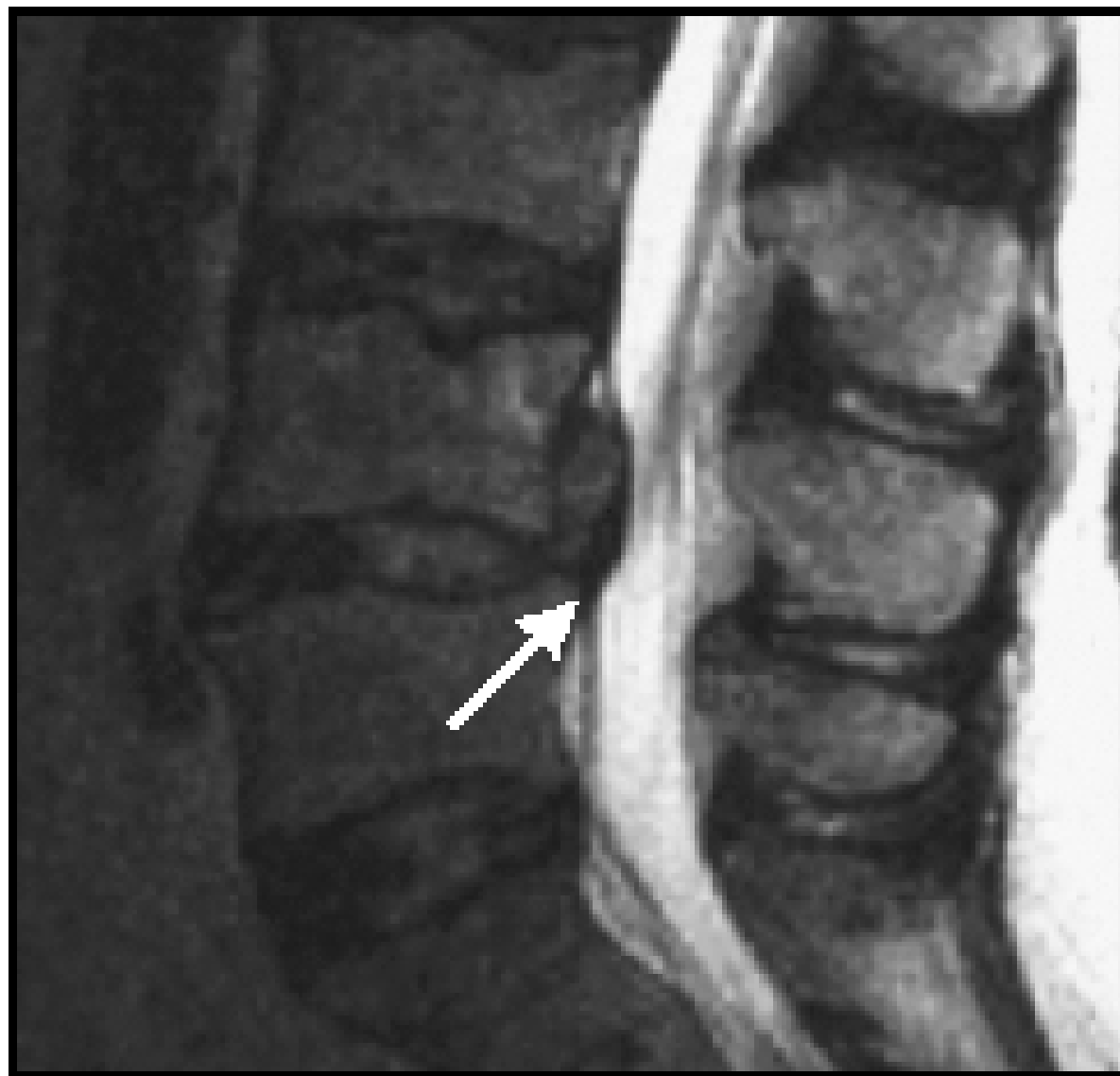
DISC

Disc

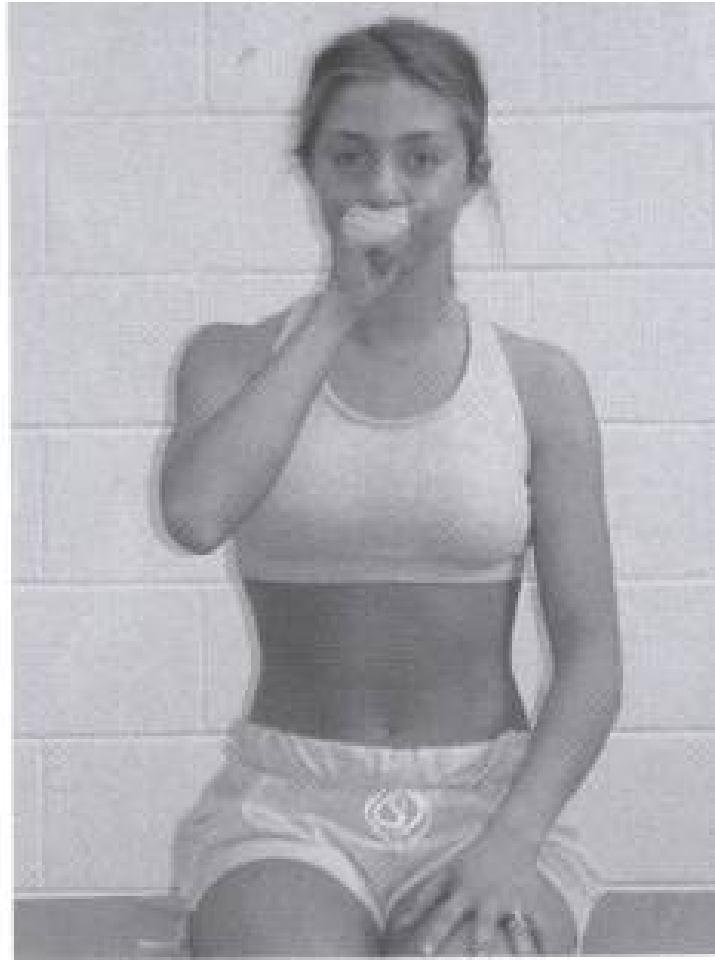


Herniated disk





Valsalva



Milgram



Well Straight Leg Raise

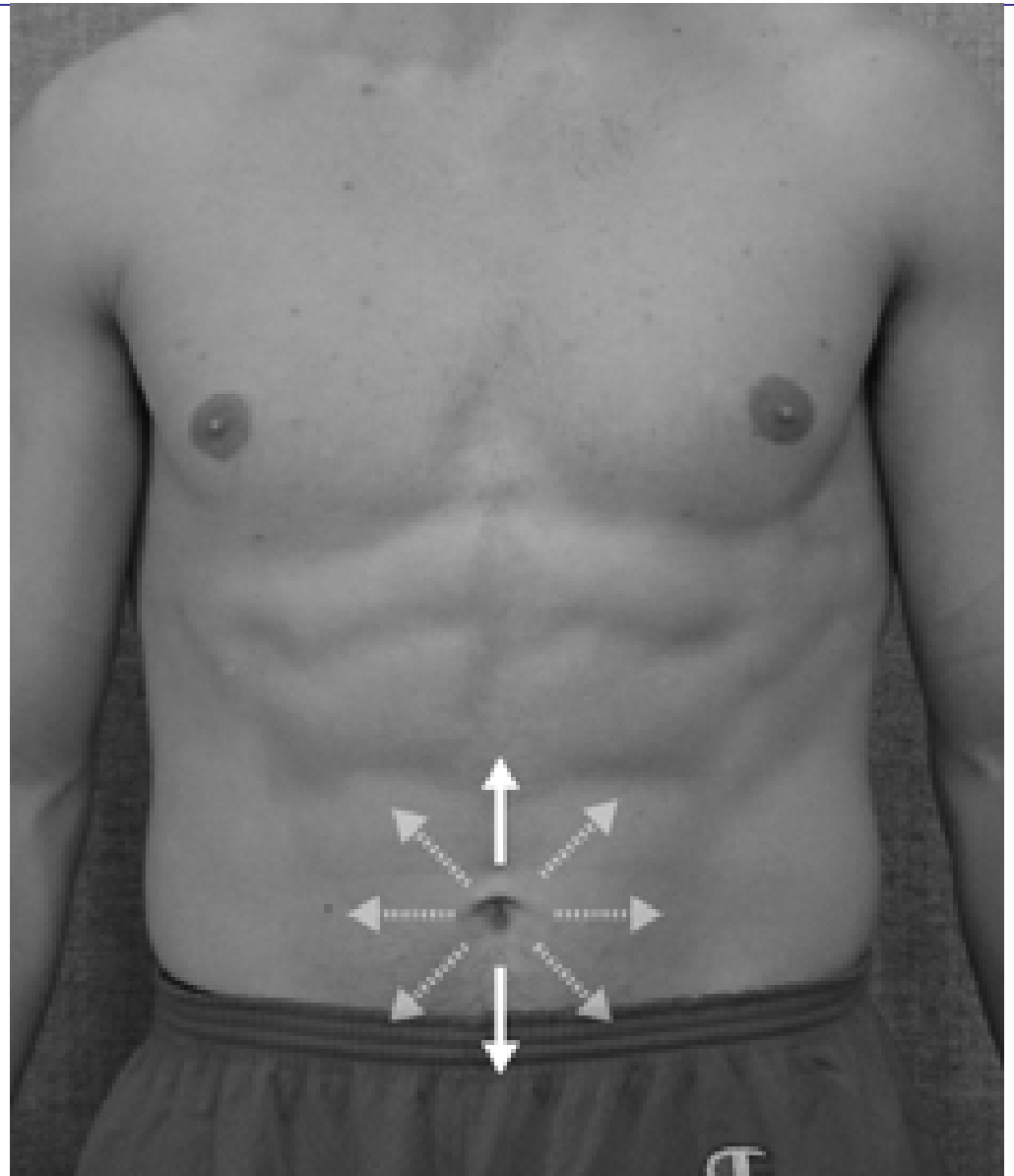


NERVE

Nerves & Spinal Cord

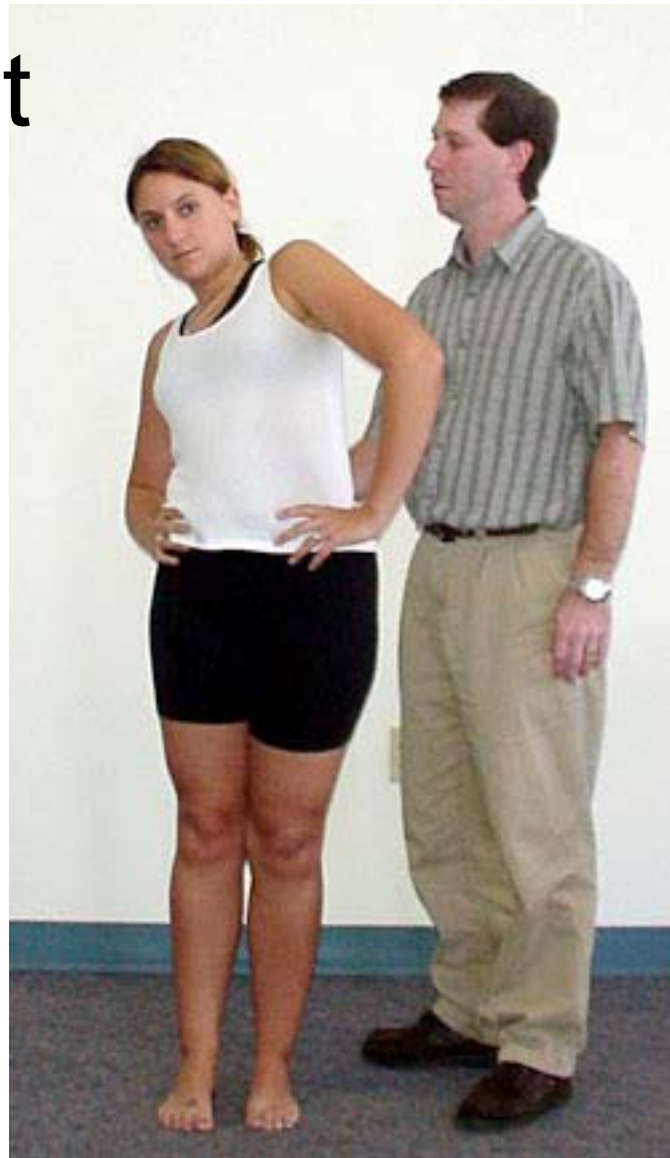


Beevor's Sign



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Quadrant Test



Femoral Nerve Stretch



Straight Leg Raise



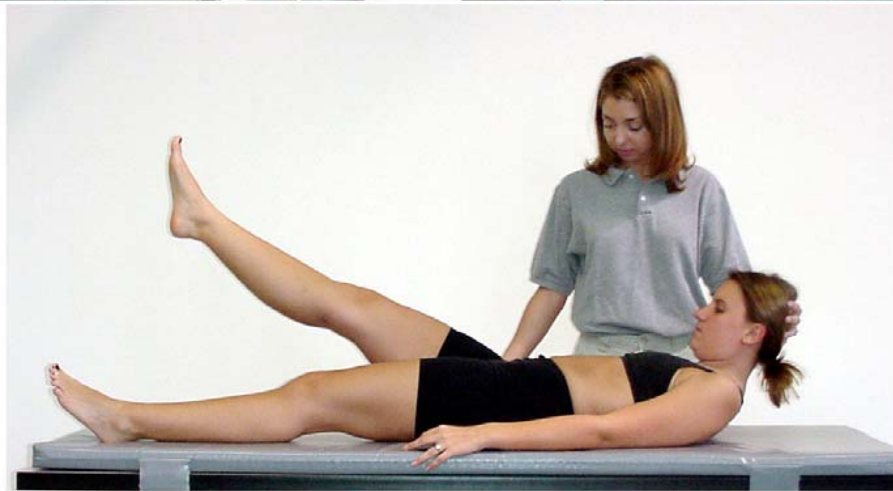
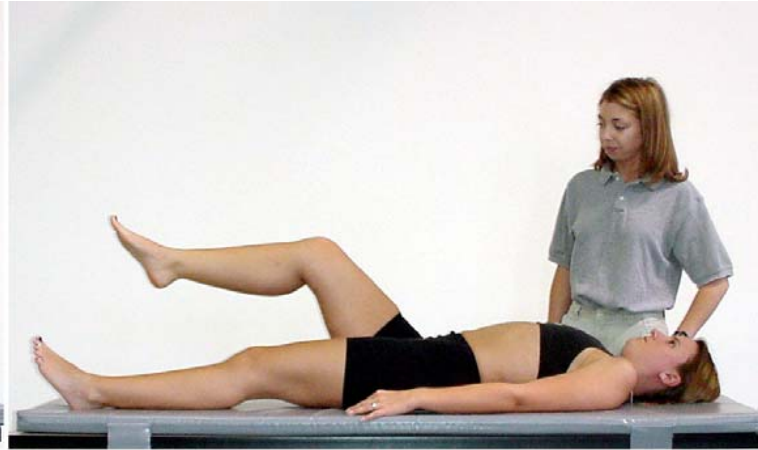
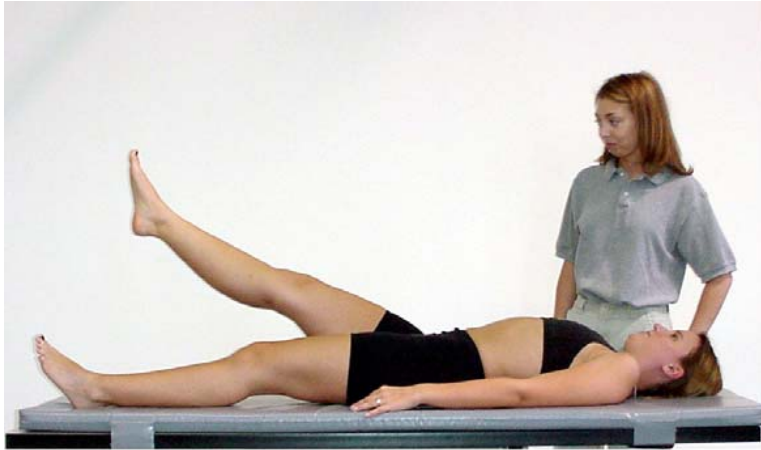
Slump Test



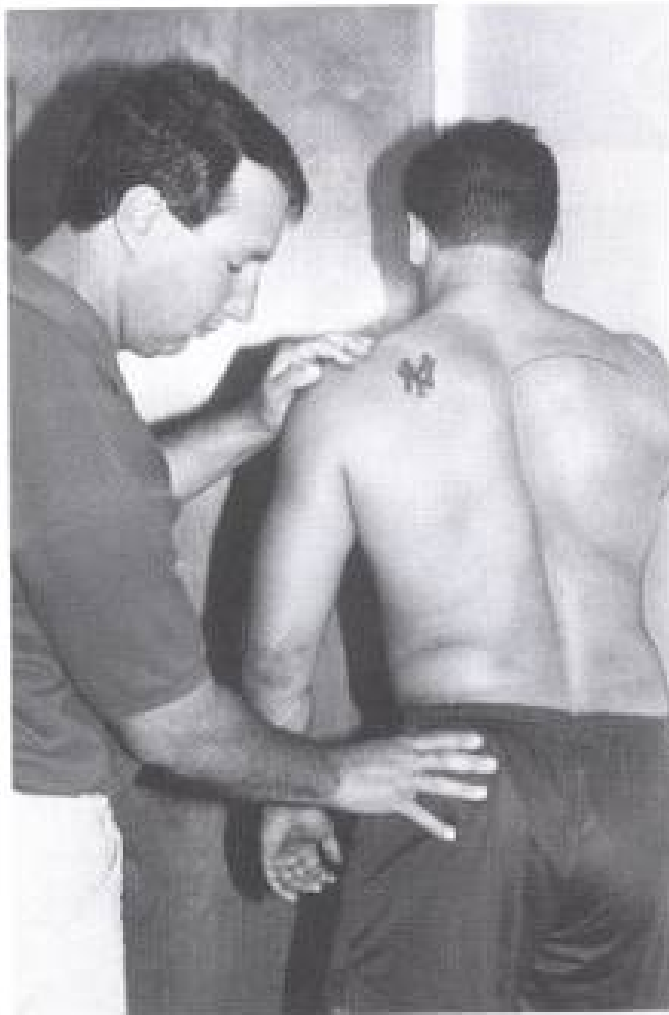
Tension Sign / Bowstring



Kernig's / Brudzinski



Side Gliding



Malingering

Hoover Test



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