PSOAS SYNDROME AND THE OFFICE WORKER:

IDENTIFICATION, PREVENTION AND TREATMENT WITH OMT.

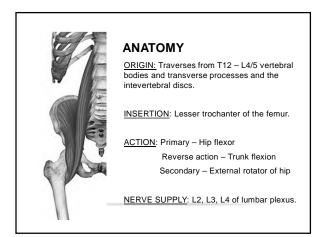
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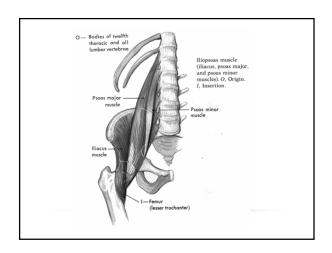
& Chad E. Frank, D.O.

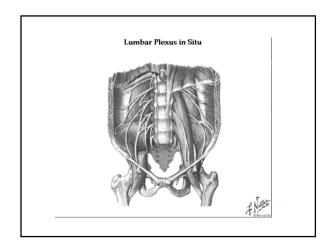
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DEFINITION - PSOAS SYNDROME

Psoas syndrome is defined as a muscular imbalance, strain, spasm, tendonitis or flexion contracture of the iliopsoas muscle.







ETIOLOGY

- Direct muscular dysfunctions arising from iliopsoas spasm or strain.
- Occurs after maintaining a position with the psoas in a shortened position for an extended period of time e.g., sitting, kneeling, crouching.
- Creates a prolonged flattened A-P curvature of lumbar spine (decreased lumbar lordosis).
- A forward bending (flexion) stress of the lumbar spine.

ETIOLOGY IN THE OFFICE WORKER

• Prolonged sitting postures such as individuals with office jobs.



PREDISPOSING FACTORS

Office workers who sit in a chair:

- 1. With a sunken seat
- 2. With a soft seat surface.



WE CAN PREVENT SYMPTOMS
PRESENTING WITH
EDUCATION/TIPS FOR
INDIVIDUALS WHOSE WORK
PREDOMINANTLY INVOLVES
SITTING AT A WORKSTATION!!

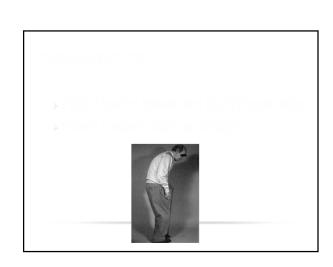
PATIENT PRESENTATION

PAIN LOCATION:

- · Waist and low back
- Thoracolumbar junction
- Lumbosacral junction
- · Sacroiliac joints
- Gluteal region (typically contralaterally)
- Down leg ****typically stopping at the knee

PATIENT PRESENTATION

- Difficulty sitting or standing upright
- Forward bent posture
- One leg short (on side of spasm)
- One leg externally rotated (typically on side opposite of spasm)



PATIENT PRESENTATION

*****The fundamental disturbance is a loss of the normal lumbar lordotic curve.

Physical Exam demonstrates <u>upper lumbar spine</u> to be fixed in forward bending (flexion); restricted in backward bending (extension).

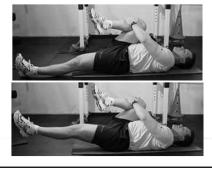
If findings not present, not likely Psoas Syndrome.

PSOAS PROGRESSION OF SYNDROME

- · Bilateral spasm (psoas)
- Unilaterally dominant spasm (psoas)
- Psoas spasm with sacral torsion (***usually backward sacral torsion)
- Pelvic side shift (to side contralateral to unilateral psoas spasm)
- Psoas spasm with sacral torsion and contralateral piriformis spasm
- Psoas spasm with sacral torsion, contralateral piriformis spasm and contralateral sciatic nerve irritation

DIAGNOSIS

Thomas Test



PSOAS SYNDROME RADIOGRAPHIC DIAGNOSIS

LATERAL FILMS:

Flattening of Lumbar anteroposterior curve



PREVENTION

Frequent breaks from the workstation, i.e., every hour, get up from the desk.



PREVENTION

Self-Stretching Psoas



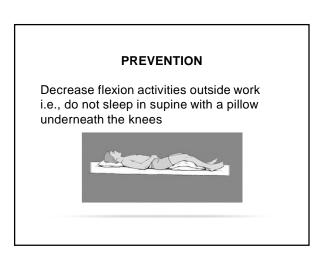


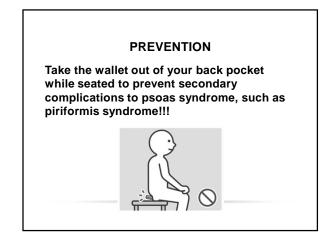
PREVENTION Ergonomic evaluation of the workstation.

IDEAL SEATED POSTURE

- Firm cushion (so buttocks do not sink)
- · Legs parallel to floor
- · Feet flat on floor
- Obtain a new ergonomically designed chair

PREVENTION Obtain a standing workstation or decrease the amount of time you sit to work.







PREVENTION

Osteopathic Manipulative Treatment!!!



SOMATIC DYSFUNCTIONS

- Hypertonic Iliopsoas
- Posterior rotation of the innominate
- T12/L1 FRS left or right (depending on side of hypertonic psoas)

Secondary dysfunctions:

- Backward torsion with axis on side of hypertonic psoas
- Hypertonic contralateral piriformis

LET'S DO SOME OMT TO TREAT PSOAS SYNDROME

