85a Orthopedic Massage: Introduction - Neck Pain

## 85a Orthopedic Massage: Introduction - Neck Pain Class Outline

5 minutes Attendance, Breath of Arrival, and Reminders

10 minutes Lecture:

25 minutes Lecture:

15 minutes Active study skills:

60 minutes Total

## 85a Orthopedic Massage: Introduction - Neck Pain Class Reminders

#### **Assignments:**

■ 85a Orthopedic Massage: Outside Massages – **DUE NOW!!** 

#### **Spot Checks and Assessments:**

• 87b Orthopedic touch Assessment

#### **Quizzes:**

 90a Kinesiology Quiz (erectors, multifidi, rotatores, quadratus lumborum, levator scapula, trapezius, splenius capitis and cervicis, semispinalis capitis)

#### Preparation for upcoming classes:

- 85b Orthopedic Massage: Technique Demo and Practice Neck Pain
   Packet J:113-116
- 86a MBLEx Prep
- 86b Orthopedic Massage: Technique review and Practice Neck Pain
- 87a MBLEx Prep

#### Classroom Rules

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

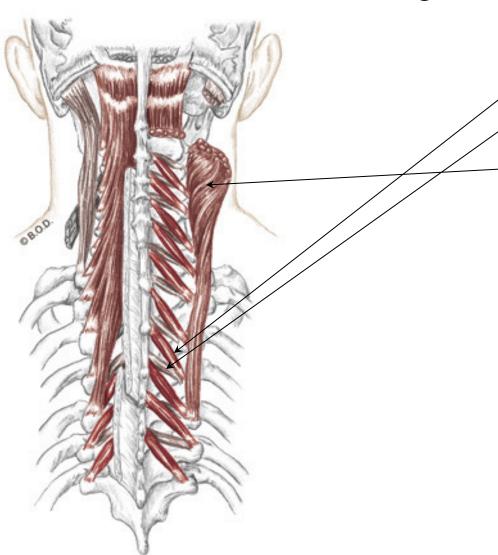
- Be ready to learn at the start of class; we'll have you out of here on time
- Tardiness: arriving late, returning late after breaks, leaving during class, leaving early

#### 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.

## Transversospinalis Group Trail Guide, Page 200



Transversospinalis group:

- Multifidi
- Rotatores
- Semispinalis capitis

These 3 muscles are deep to the erectors.

New to us, the semispinalis capitis muscle can be seen as the "twin speed bumps" on the posterior neck.

Posterior View

## Semispinalis Capitis, page 201

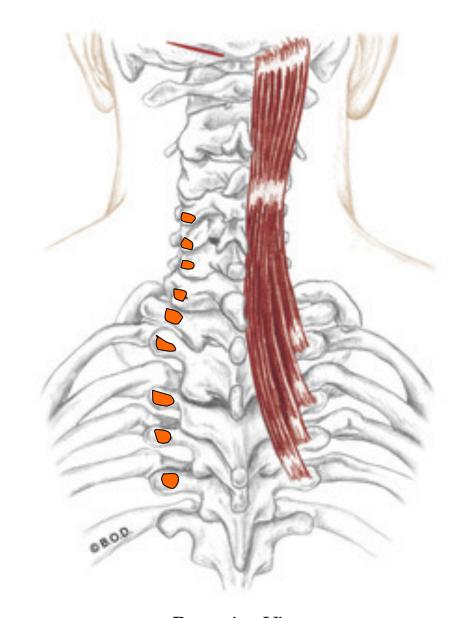
- A Extend the vertebral column and head
- Transverse processes of C4-T5
- Between the superior and inferior nuchal lines of the occiput



Posterolateral View

### Semispinalis Capitis, page 201

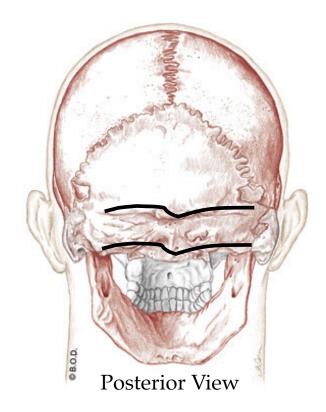
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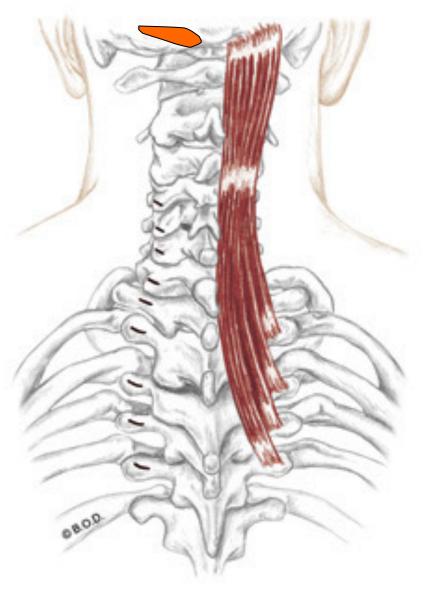


Posterior View

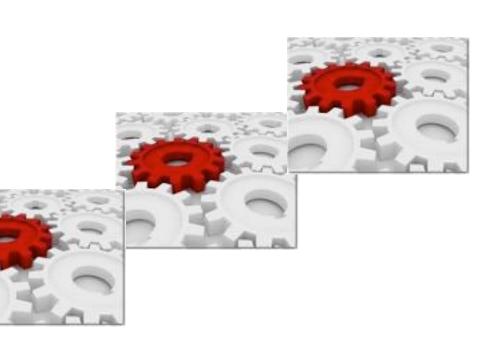
## Semispinalis Capitis, page 201

- A Extend the vertebral column and head
- Transverse processes of C4-T5
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Posterior View



A Unilaterally:

Rotate the head and neck to the same side

Laterally flex the head and neck

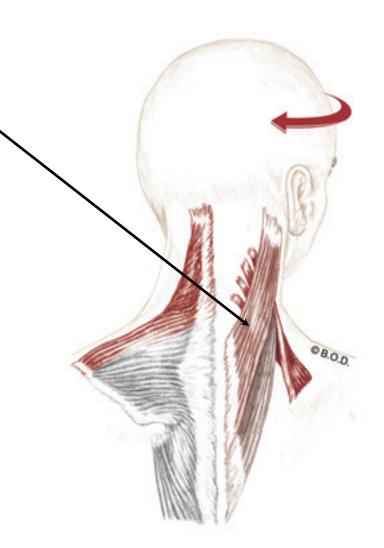
Bilaterally:

Extend the head and neck

Inferior 1/2 of ligamentum nuchae

Spinous processes of C7 to T4

Mastoid process



Posterior View

A Unilaterally:

Rotate the head and neck to the same side

Laterally flex the head and neck

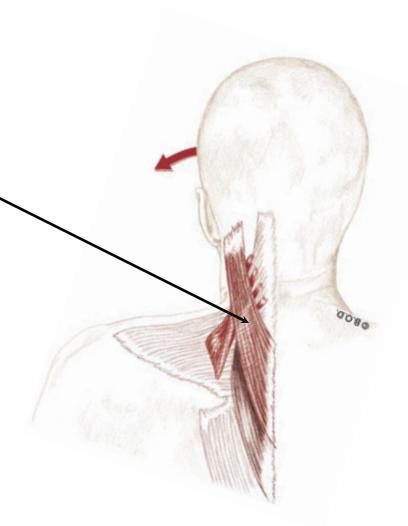
Bilaterally:

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Posterior View

A Unilaterally:

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Laterally flex the head and neck

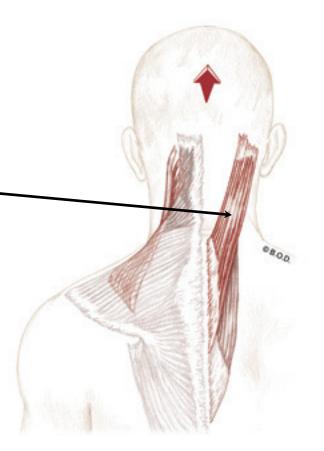
#### Bilaterally:

**Extend** the head and neck

Inferior 1/2 of ligamentum nuchae

Spinous processes of C7 to T4

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Posterior View

A Unilaterally:

Rotate the head and neck to the same side

Laterally flex the head and neck

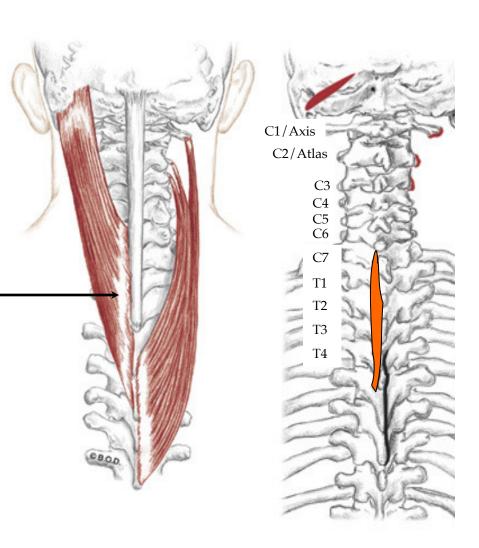
Bilaterally:

Extend the head and neck

Inferior 1/2 of ligamentum nuchae

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Posterior View

A Unilaterally:

Rotate the head and neck to the same side

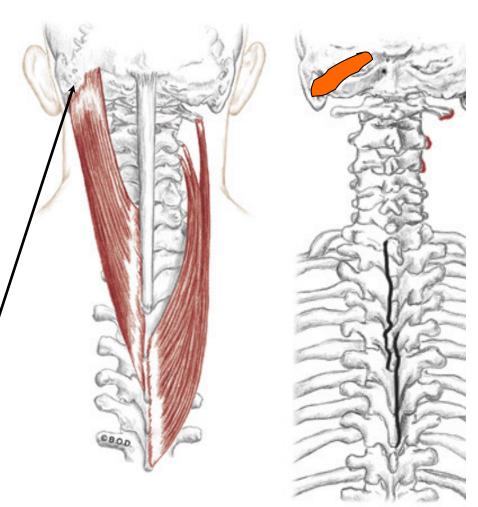
Laterally flex the head and neck

#### Bilaterally:

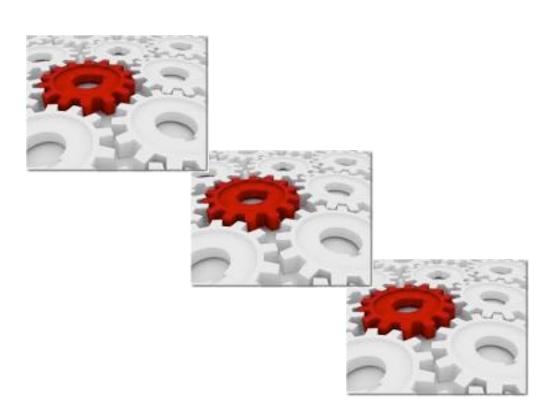
Extend the head and neck

Inferior 1/2 of ligamentum nuchae
Spinous processes of C7 to T4

Mastoid process



Posterior View



A Unilaterally:

Rotate the head and neck to the same side

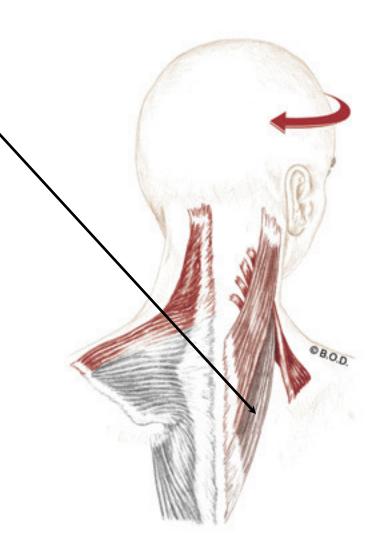
Laterally flex the head and neck

Bilaterally:

Extend the head and neck

Spinous processes of T3 to T6

Transverse processes of C1 to C3



Posterior View

A Unilaterally:

Rotate the head and neck to the same side

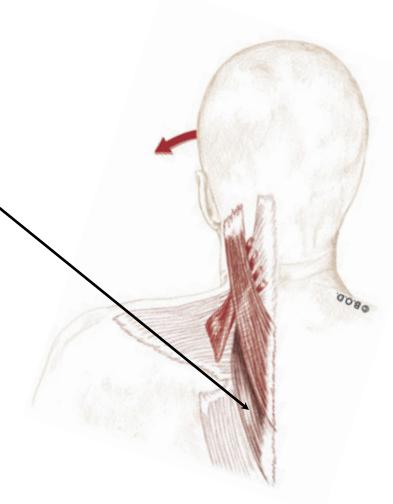
Laterally flex the head and neck

Bilaterally:

Extend the head and neck

Spinous processes of T3 to T6

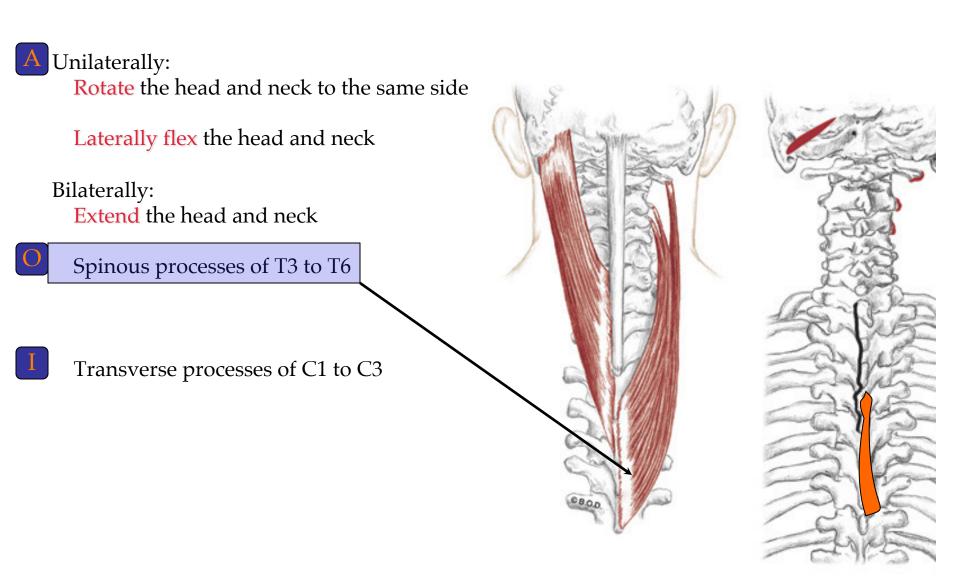
Transverse processes of C1 to C3



Posterior View

Unilaterally: Rotate the head and neck to the same side Laterally flex the head and neck Bilaterally: Extend the head and neck Spinous processes of T3 to T6 Transverse processes of C1 to C3

Posterior View



Posterior View

Unilaterally: Rotate the head and neck to the same side Laterally flex the head and neck Bilaterally: Extend the head and neck Spinous processes of T3 to T6 Transverse processes of C1 to C3

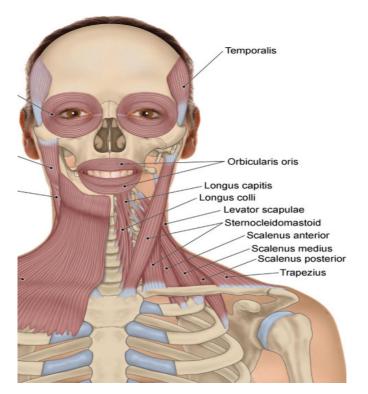
Posterior View

## 85a Orthopedic Massage: Introduction - Neck Pain

Packet J - 109

#### Neuromuscular neck pain

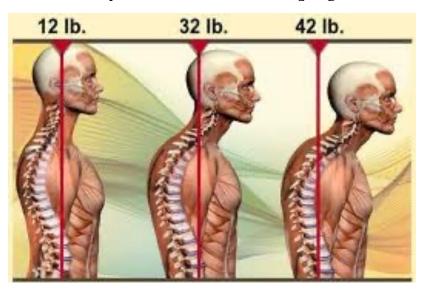
**Neuromuscular neck pain** Hypertonicity either throughout an entire neck muscle or in localized areas of a neck muscle.



**Anterior View** 

### Etiology

- Keeping the head in an upright position places postural strain on cervical muscles and other soft-tissues.
- Once the head moves forward of the center of gravity, there is a significant increase in muscle activity to hold the head upright.



• This can lead to muscular dysfunction in the form of trigger points or hypertonicity in an entire muscle.

## Etiology

• A pain-spasm-pain cycle can result from even slight muscular dysfunction.

• Sudden loading of hypertonic cervical muscles can produce symptoms in other areas such as the temporomandibular joint.

### Etiology

 Because many cervical muscles maintain constant isometric contractions during the day just to keep the head erect, patterns of dysfunction are facilitated by the very act of attempting to hold the head upright.

• These patterns of dysfunction can have a tendency to recur any time the individual is exposed to physical, psychological, or chemical stressors.

#### **Traditional Treatments**

#### Immobilization using a cervical collar

• Variable effectiveness: only used if the pain is severe and joint hypermobility is a serious concern.

#### Rest

• Variable effectiveness: continue normal daily functions, but avoid any painful activities.

#### **Traditional Treatments**

#### Instruction in body mechanics, stretching, and strength training

• Effective: if done properly and regularly

#### **Anti-inflammatory medications**

Variable effectiveness: reduces pain if there is inflammation

• Neuromuscular pain is established by constant reinforcement. Early in your treatment, encourage the client to change these movement patterns to complement the myofascial manipulation.

• Stretching and flexibility enhancement are essential to treating neuromuscular pain. Stretching is most effective after soft-tissue manipulation has enhanced tissue pliability.

• This treatment can dramatically alter muscular proprioception resulting in spasms in an easily overloaded muscle. Have the client move slowly and carefully when first getting up from the massage table and for a short time afterward.

• Clients with sensitivity during head and neck movement may brace with protective muscle guarding. Be aware of these guarding possibilities, and make sure that your treatment encourages relaxation.

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