

# Semispinalis Muscle

Nathaniel Yomogida, SPT

Chloë Kerstein, SPT

## Table of contents

<b>1</b>	<b>OIAN</b>	<b>1</b>
<b>2</b>	<b>Semispinalis Capitis OIAN</b>	<b>3</b>
2.1	Origin . . . . .	3
2.2	Insertion . . . . .	3
2.3	Innervation . . . . .	3
2.4	Action . . . . .	5
<b>3</b>	<b>Semispinalis Cervicis OIAN</b>	<b>5</b>
3.1	Origin . . . . .	5
3.2	Insertion . . . . .	5
3.3	Innervation . . . . .	5
3.4	Action . . . . .	5
<b>4</b>	<b>Semispinalis Thoracis OIAN</b>	<b>5</b>
4.1	Origin . . . . .	5
4.2	Insertion . . . . .	5
4.3	Innervation . . . . .	5
4.4	Action . . . . .	6

## 1 OIAN

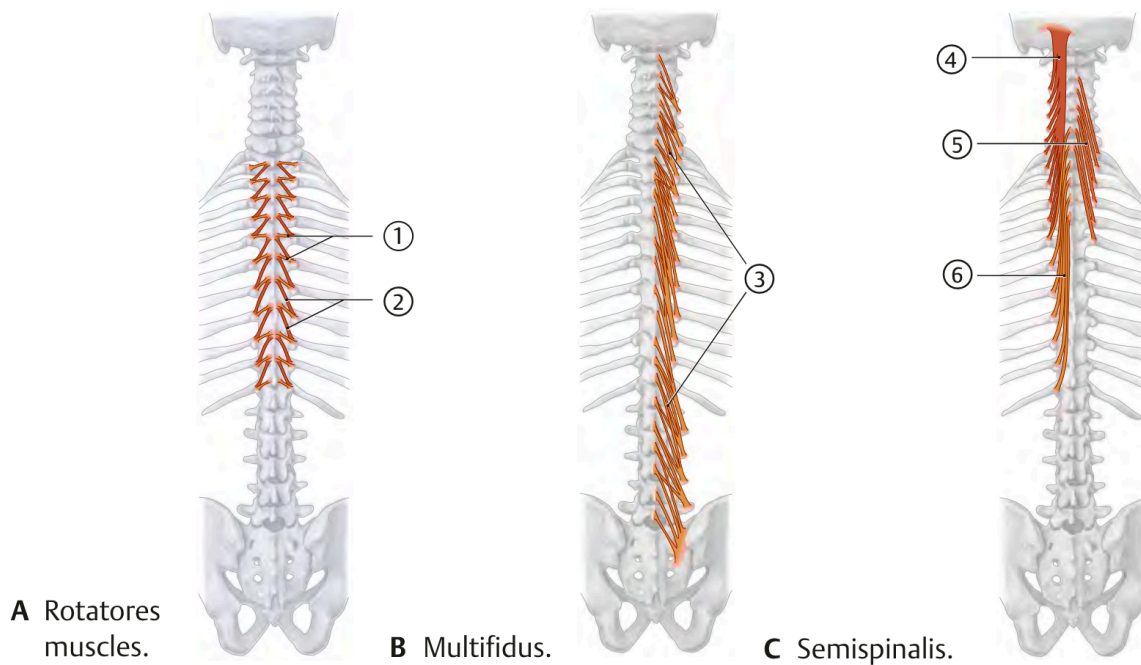


Figure 1: Schematic, posterior view of the transversospinalis muscles<sup>1</sup>

Table 1: Semispinalis Muscle OIAN

Muscle	Origin	Insertion	Nerve	Action
Semispinalis Capitis	C4-T7 (TP and Articular process)	Occipital bone (between superior and inferior nuchal lines)	Spinal nn. (Posterior Rami)	<b>BIL:</b> Extends thoracic and cervical spines and head (stabilizes craniovertebral jt); <b>UNIL:</b> I/L SB of head, cervical, and thoracic spine; C/L Rotation

Muscle	Origin	Insertion	Nerve	Action
<a href="#">Semispinalis Cervicis</a>	T1-T6 (TP)	C2-C5 (SP)	<a href="#">Spinal nn. (Posterior Rami)</a>	<b>BIL:</b> Extends thoracic and cervical spines and head (stabilizes craniovertebral jt); <b>UNIL:</b> I/L SB of head, cervical, and thoracic spine; C/L Rotation
<a href="#">Semispinalis Thoracis</a>	T6-T12 (TP)	C6-T4 (SP)	<a href="#">Spinal nn. (Posterior Rami)</a>	<b>BIL:</b> Extends thoracic and cervical spines and head (stabilizes craniovertebral jt); <b>UNIL:</b> I/L SB of head, cervical, and thoracic spine; C/L Rotation

## 2 Semispinalis Capitis OLAN

### 2.1 Origin

C4-T7 (TP and Articular process)<sup>1</sup>

### 2.2 Insertion

Occipital bone (between superior and inferior nuchal lines)<sup>1</sup>

### 2.3 Innervation

[Spinal nn. \(Posterior Rami\)](#)<sup>1</sup>

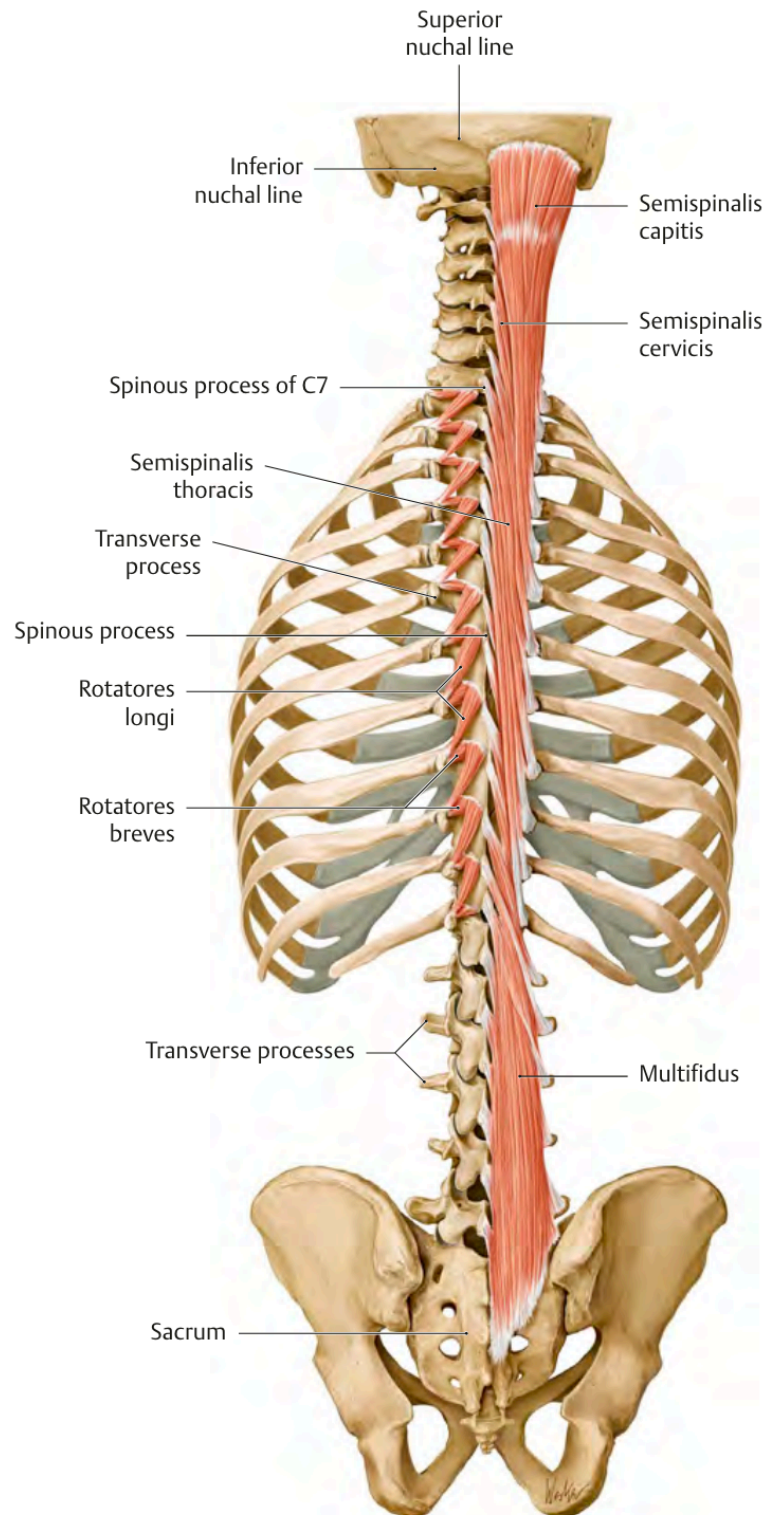


Figure 2: Posterior view of the Transversospinalis muscles<sup>1</sup>

## 2.4 Action

- **BIL:** Extends thoracic and cervical spines and head (stabilizes craniovertebral jt)<sup>1</sup>
- **UNIL:** I/L SB of head, cervical, and thoracic spine; C/L Rotation<sup>1</sup>

## 3 Semispinalis Cervicis OIAN

### 3.1 Origin

T1-T6 (TP)<sup>1</sup>

### 3.2 Insertion

C2-C5 (SP)<sup>1</sup>

### 3.3 Innervation

Spinal nn. (Posterior Rami)<sup>1</sup>

### 3.4 Action

- **BIL:** Extends thoracic and cervical spines and head (stabilizes craniovertebral jt)<sup>1</sup>
- **UNIL:** I/L SB of head, cervical, and thoracic spine; C/L Rotation<sup>1</sup>

## 4 Semispinalis Thoracis OIAN

### 4.1 Origin

T6-T12 (TP)<sup>1</sup>

### 4.2 Insertion

C6-T4 (SP)<sup>1</sup>

### 4.3 Innervation

Spinal nn. (Posterior Rami)<sup>1</sup>

#### 4.4 Action

- **BIL:** Extends thoracic and cervical spines and head (stabilizes craniovertebral jt)<sup>1</sup>
  - **UNIL:** I/L SB of head, cervical, and thoracic spine; C/L Rotation<sup>1</sup>
1. Gilroy AM, MacPherson BR, Wikenheiser JC, Voll MM, Wesker K, Schünke M, eds. *Atlas of Anatomy*. 4th ed. Thieme; 2020.