

Longus colli cervicis

Nathaniel Yomogida, SPT

Chloë Kerstein, SPT

Table of contents

1 OIAN	1
1.1 Origin	3
1.2 Insertion	3
1.3 Innervation	3
1.4 Action	3
2 Muscle groups	4
3 Palpation	4
Clinical significance	4

1 OIAN

Muscle	Origin	Insertion	Nerve	Action
Longus colli cervicis	Vertical part: C5-T3 (ant side of vertebral body); Sup-oblique C3-C5 (TP, Ant tubercle) Inf-Oblique: T1-T3 (ant side of vertebral body)	Vertical part: C2-C4 (ant sides of vertebral bodies); Sup-oblique C1 (TP, ant tubercle) Inf-Oblique: C5-C6 (TP, Ant tubercles)	Direct branches from cervical plexus (C2-C6)	BIL: Flex AO Joint; UNIL: Lat flex at AO joint

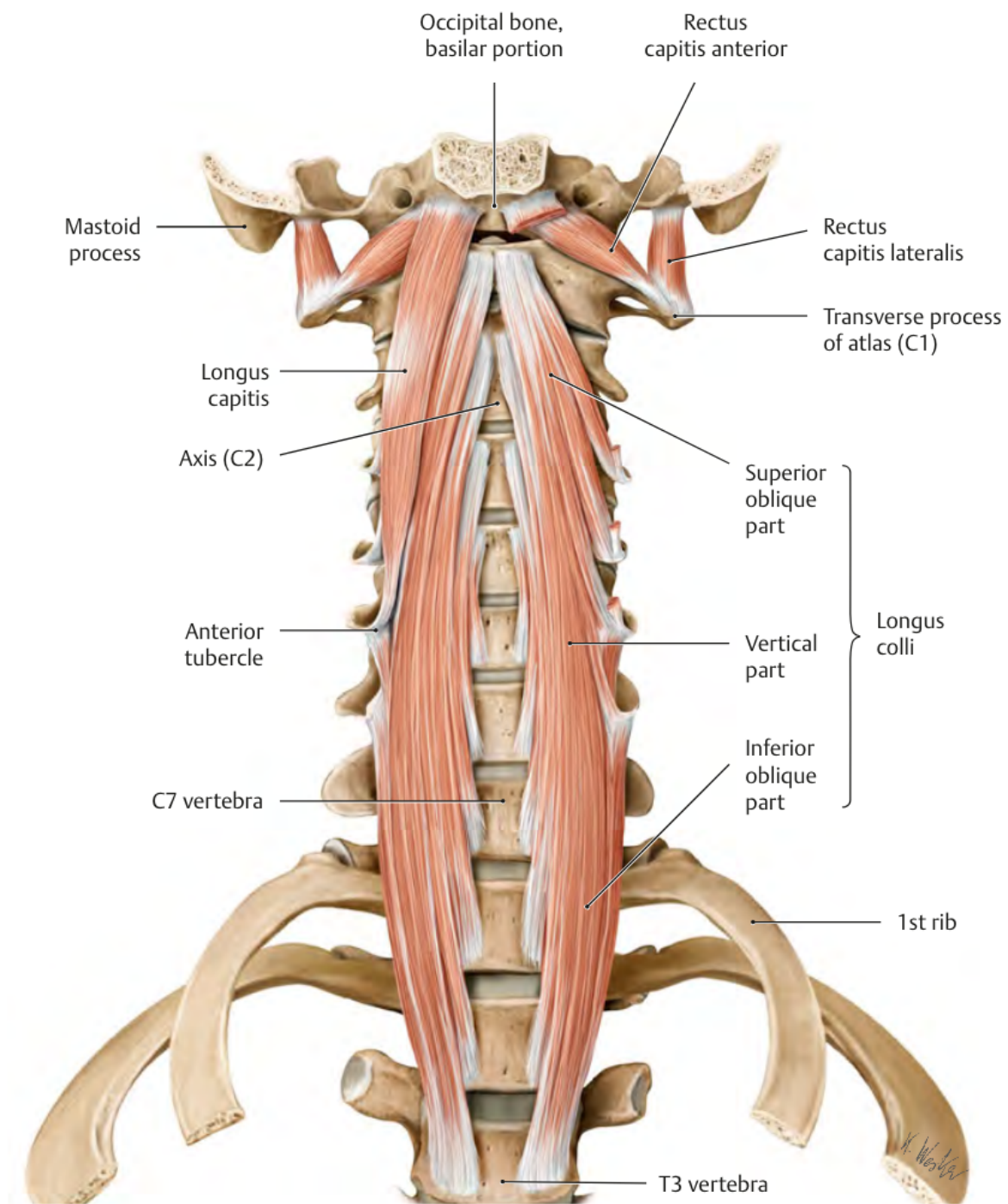


Figure 1: Prevertebral muscles anterior view¹

Muscle	Origin	Insertion	Nerve	Action
Longus colli cervicis (Vertical Part)	C5-T3 (ant side of vertebral body) ¹	Occipital bone (basilar part)	Direct branches from cervical plexus (C2-C6)	Bilaterally flexes AO Joint; Unilaterally flexes and slight I/L rotation
Longus colli cervicis (Superior Oblique part)	C3-C5 (TP, Ant tubercle) ¹	Superior oblique part: C1 (TP, ant tubercle) ¹		
Longus colli cervicis (Inferior Oblique Part)	T1-T3 (ant side of vertebral body) ¹	Inferior oblique part: C5-C6 (TP, Ant tubercles) ¹		

1.1 Origin

- C5-T3 (ant side of vertebral body)¹
- C3-C5 (TP, Ant tubercle)¹
- T1-T3 (ant side of vertebral body)¹

1.2 Insertion

Vertical (medial) part: C2-C4 (ant sides of vertebral bodies)¹ Superior oblique part: C1 (TP, ant tubercle)¹ Inferior oblique part: C5-C6 (TP, Ant tubercles)¹

1.3 Innervation

Direct branches from cervical plexus (C2-C6)¹

1.4 Action

- **Bilateral:** Flex AO Joint
- **Unilateral:** Lat flex at AO joint

2 Muscle groups

Longus colli cervicis is part of the [prevertebral muscle group](#)¹.

3 Palpation

Clinical significance

1. Gilroy AM, MacPherson BR, Wikenheiser JC, Voll MM, Wesker K, Schünke M, eds. *Atlas of Anatomy*. 4th ed. Thieme; 2020.