Prevertebral Region

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INTRODUCTION

PREVERTEBRAL REGION OF THE NECK-

• Extends from 1st cervical vertebra to the upper two thoracic vertebrae.

PARAVERTEBRAL REGION OF THE NECK-

• Lies on either side of prevertebral region.

• Extends from transverse process of 1st cervical vertebra to the 1st rib.

ROOT OF THE NECK-

• Area of the neck immediately above the thoracic inlet.
Structures in the Pre-and Paravertebral Regions

• Prevertebral (Anterior vertebral) muscles.

• Paravertebral (Lateral vertebral) muscles.

• Cervical plexus.

• Cervical sympathetic chains.

• Large vessels.
1. **Rectus capitis anterior.**

2. **Rectus capitis lateralis.**

3. **Longus cervicis (longus colli).**

4. **Longus capitis.**

- Lie in front of the cervical part of the vertebral column.
- Covered by **prevertebral fascia.**
- Form the posterior boundary of **retropharyngeal space.**
- Supplied by ventral rami of cervical spinal nerves.
Rectus Capitis Anterior

**ORIGIN-**
• Anterior surface of lateral mass of atlas.

**INSERTION-**
• Inferior surface of the basi-occiput just in front of the occipital condyle.
Rectus Capitis Anterior contd...

NERVE SUPPLY-

• Ventral ramus of 1<sup>st</sup> cervical spinal nerve.

ACTIONS-

• Flexion of head.
Rectus Capitis Lateralis

**ORIGIN-**
- Upper surface of the transverse process of the atlas.

**INSERTION-**
- Inferior surface of the jugular process of the occipital bone.
Rectus Capitis Lateralis contd...

NERVE SUPPLY-
• Ventral ramus of 1st cervical spinal nerve.

ACTION-
• Lateral flexion of head to the same side.
Longus Cervicis (Longus Colli)

- Extends from anterior tubercle of atlas to the anterior aspect of body of 3rd thoracic vertebra.

- Consists of 3 parts:
  - Upper oblique.
  - Middle vertical.
  - Lower oblique.

**UPPER OBLIQUE PART**
- Passes upward and medially.

**Origin**
- Anterior tubercles of transverse processes of C3, C4, and C5 vertebrae.

**Insertion**
- Anterior arch of atlas to the side of anterior tubercle.
MIDDLE VERTICAL PART-

**Origin**-
- From front of bodies of lower 3 cervical [C5, C6, and C7] and upper 3 thoracic vertebrae.

**Insertion**-
- On front of bodies of 2nd, 3rd, and 4th cervical vertebrae.
Longus Cervicis (Longus Colli) contd...

**LOWER OBLIQUE PART**

**Origin**

- Front of bodies of upper 3 thoracic vertebrae.

**Insertion**

- Anterior tubercles of transverse processes of 5th and 6th cervical vertebrae.
Longus Cervicis (Longus Colli) contd...

NERVE SUPPLY-

• Anterior primary rami of C2-C6 spinal nerves.

ACTIONS-

• Flexion of neck.

• Lateral Flexion the neck (by upper oblique part).

• Rotation of neck to the opposite side (by lower oblique part).
### Longus Capitis

**ORIGIN**-
- Anterior tubercles of the transverse processes of C3, C4, C5, and C6 vertebrae.

**INSERTION**-
- Inferior surface of basilar part of occipital bone along the side of pharyngeal tubercle.

**NERVE SUPPLY**-
- Anterior primary rami of C2-C6 spinal nerves.

**ACTIONS**-
- Flexion of head.