

وسهلا

أهلا

يُمنع أخذ السلايدات بدون
إذن المحرر واي اجراء
يخالف ذلك يقع تحت
طائلة المسؤولية القانونية



الأستاذ الدكتور يوسف حسين

أستاذ التشريح وعلم الأجنة - كلية الطب - جامعة الزقازيق - مصر

رئيس قسم التشريح و الأنسجة و الأجنة - كلية الطب - جامعة مؤتة - الأردن

دكتورة من جامعة كولونيا المانيا

جروب الفيس د. يوسف حسين (استاذ التشريح)

اليوتيوب د. يوسف حسين

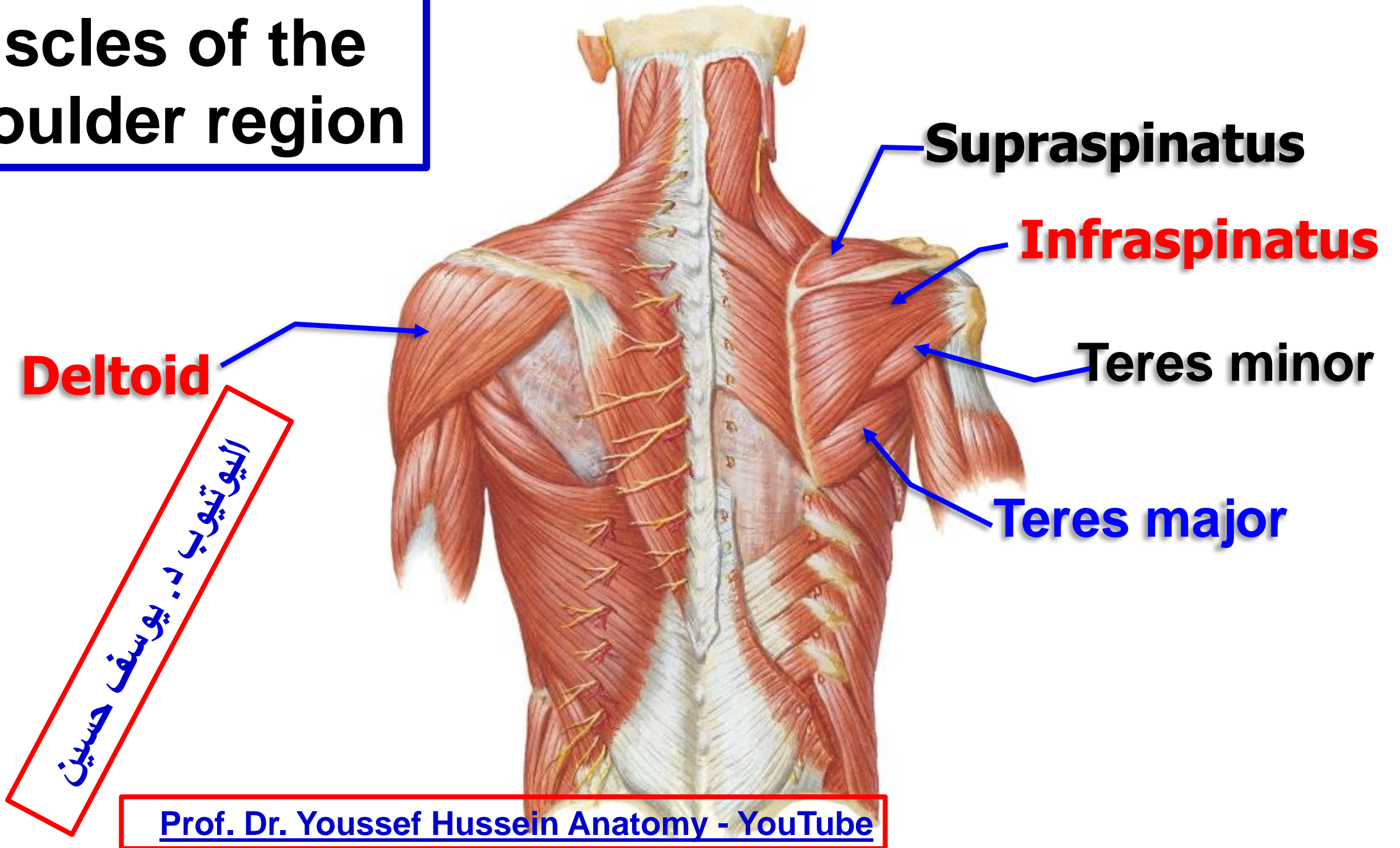
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Shoulder region

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Muscles of the shoulder region



Deltoid Muscle

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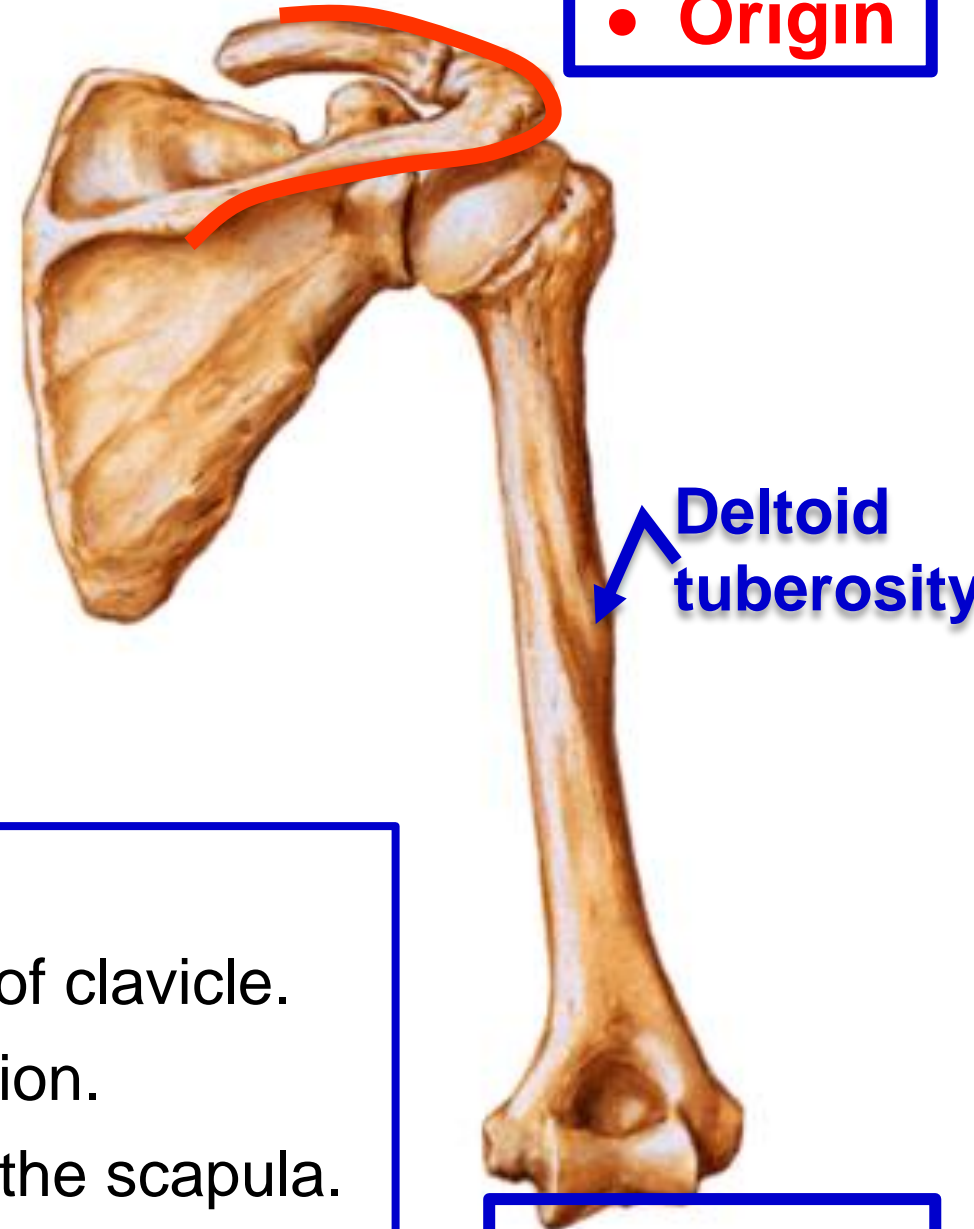
• Deltoid Muscle

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• Origin



** Origin:

- 1- **Anterior fibers** from anterior border of lateral 1/3 of clavicle.
- 2- **Middle fibers** from the lateral border of the acromion.
- 3- **Posterior fibers** from the lower lip of the spine of the scapula.

** **Insertion:** into the deltoid tuberosity of the humerus.

• Insertion

• Deltoid Muscle

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**** Nerve supply:** axillary nerve (C5&6).

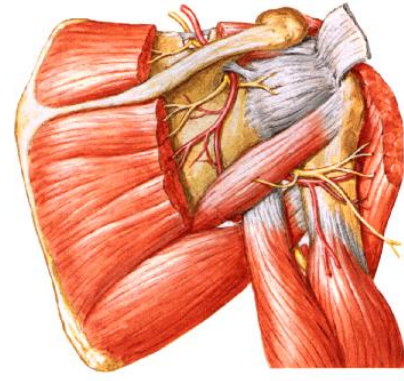
**** Actions:**

- 1- Anterior fibers**, flexion, and medial rotation of arm.
- 2- Posterior fibers**, extension and lateral rotation of the arm.
- 3- Middle fibers** abduct the arm from 15 to 90 degree.
- 4- Round contour** of the shoulder.

Paralysis of deltoid muscle leading to **Flat shoulder** and **Loss of abduction**



**** Structures under cover the deltoid**



1- Joint: Shoulder joint.

2- Nerve; Axillary nerve.

3- Vessels: Anterior and posterior circumflex humeral vessels.

4- Bursa: Subdeltoid (Subacromical) bursa.

5- Bones: Coracoid process and upper part of shaft of the humerus.

6- Muscles: Suprspinatous, infraspinatous, teres minor, coracobrachialis and biceps.

7- Ligaments: Coracoacromial, coracoclavicular and transverse humeral ligaments.

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* **Intramuscular injection into the deltoid muscle:** on its lateral aspect about 4 -5 cm below the acromion to avoid injury of axillary nerve, it is used for injection of small volume equal or less than 2 ml

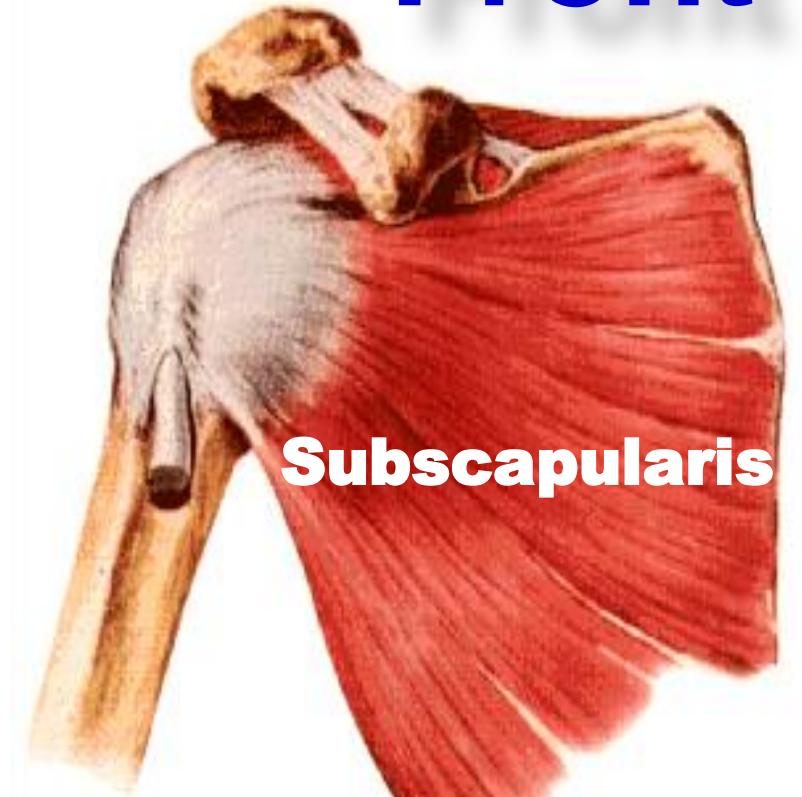
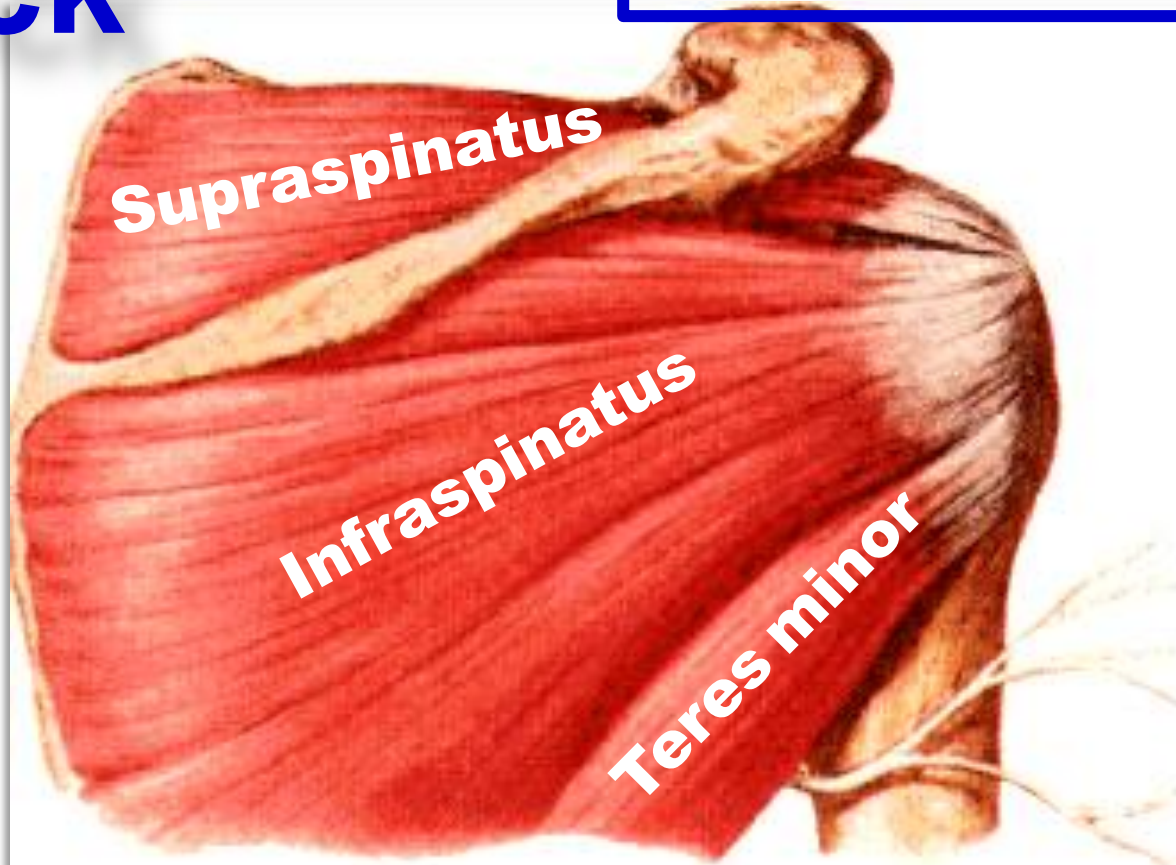
Rotator cuff muscles

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Back

• Rotator cuff Muscles

Front



- These muscles play an important role in **stability of the shoulder joint** but the inferior aspect not supported by muscles. So dislocation of the shoulder is almost inferiorly.
- They keep humerus in contact with glenoid cavity during movements of shoulder joint.

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❖ Subscapularis muscle

- ❖ **Origin:** medial 3/4 of subscapular fossa
- ❖ **Insertion:** lesser tuberosity
- ❖ **Nerve supply:** (double) upper & lower subscapular nerves (C5&6)
- ❖ **Actions:**
 - 1- **Adduction** and **medial** rotation of the arm.
 - 2- Fixation of the shoulder joint



(Infront)

❖ **Supraspinatous muscle**

- ❖ **Origin:** medial 3/4 of supraspinatous fossa
- ❖ **Insertion:** top of the greater tuberosity
- ❖ **Nerve supply:** suprascapular nerve (C5&6)
- ❖ **Actions:**
 - 1- **Abduction** from 0 to 15 degrees.
 - 2- **Fixation** of the shoulder joint (**above**)



**** Applied anatomy**

- ❖ **Paralysis of the Supraspinatus**, the patient can abduct his arm manually or by lateral flexion of the trunk.
- ❖ Its tendon passes **deep to coracoacromial arch** and separated from it by subacromial bursa.
- ❖ **Acute rupture of the tendon of supraspinatous** leading to severe pain in the shoulder during abduction.
- ❖ **Chronic degeneration of the tendon of supraspinatous** leading to gradual increase stiffness of the shoulder joint (it appear as powder like deposits and can be seen by x-ray).

❖ **Infraspinatous muscle**

- ❖ **Origin:** medial 3/4 of infraspinatous fossa
- ❖ **Insertion:** middle impression of the greater tuberosity
- ❖ **Nerve supply:** suprascapular nerve (C5&6)
- ❖ **Actions:**
 - 1- **Adduction** and **lateral** rotation of the arm.
 - 2- Fixation of the shoulder joint

(**behind**)

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❖ Teres minor **muscle**

- ❖ **Origin:** upper 2/3 of the dorsal aspect of the lateral border of the scapula
- ❖ **Insertion:** Lower impression of the greater tuberosity
- ❖ **Nerve supply:** axillary nerve (C5&6)
- ❖ **Actions:**
 - 1- **Adduction** and **lateral** rotation of the arm.
 - 2- Fixation of the shoulder joint

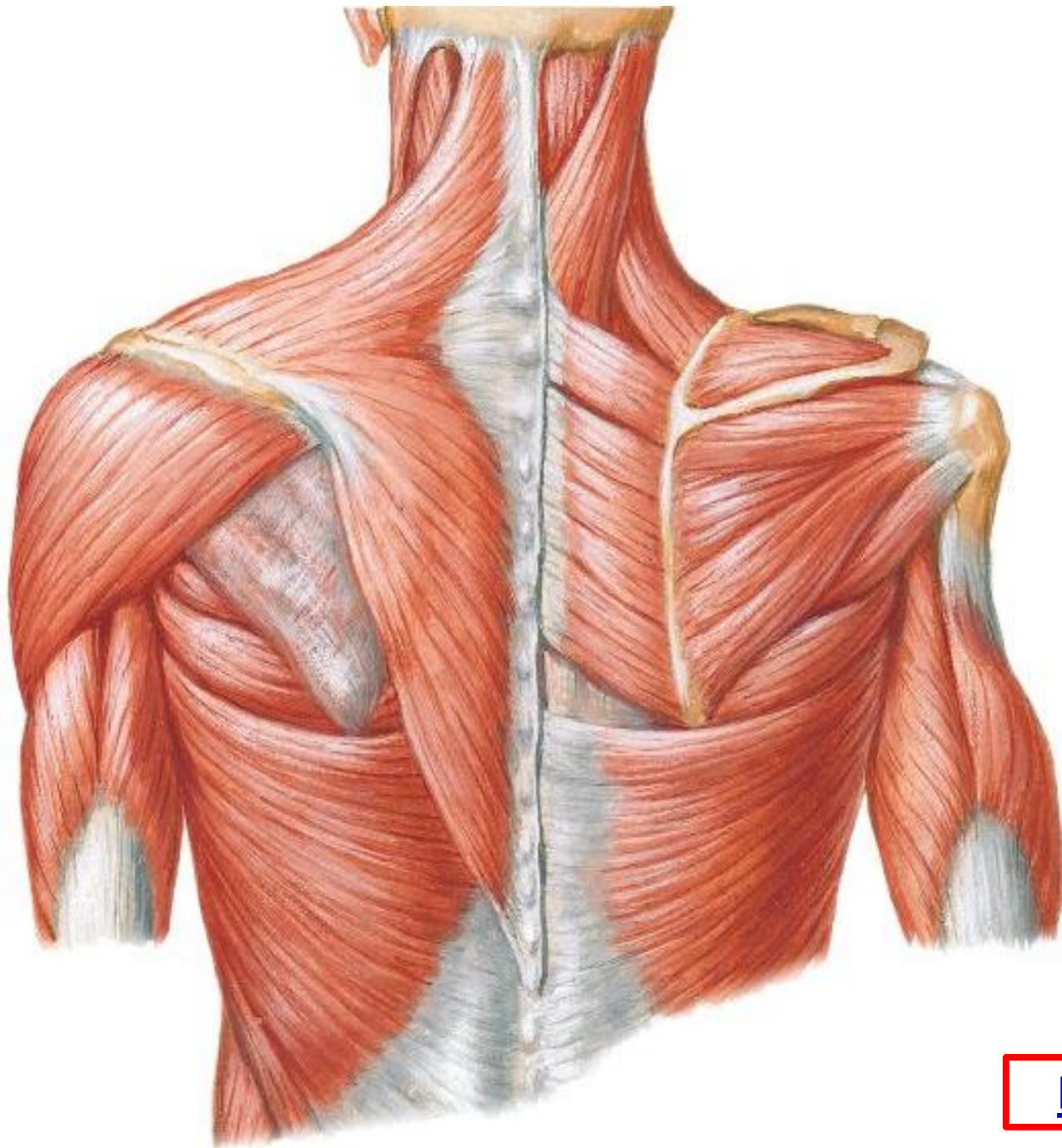


(**behind**)

❖ Teres major **muscle**

- ❖ **Origin:** lower 1/3 of the dorsal aspect of the lateral border of the scapula (large ovale area)
- ❖ **Insertion:** medial lip of the bicipital groove
- ❖ **Nerve supply:** lower subscapular nerve (C5&6)
- ❖ **Actions:**
 - **Adduction** and **medial** rotation of arm.





**Intermuscular
spaces of
shoulder region**

- **Intermuscular Spaces**

1- Upper (Medial) triangular space: boundaries:

- **Superiorly:** Teres minor and Subscapularis.
- Inferiorly: Teres major.
- **Laterally:** Long head of triceps.

** It transmits circumflex scapular artery.

2- Quadrangular space: boundaries:

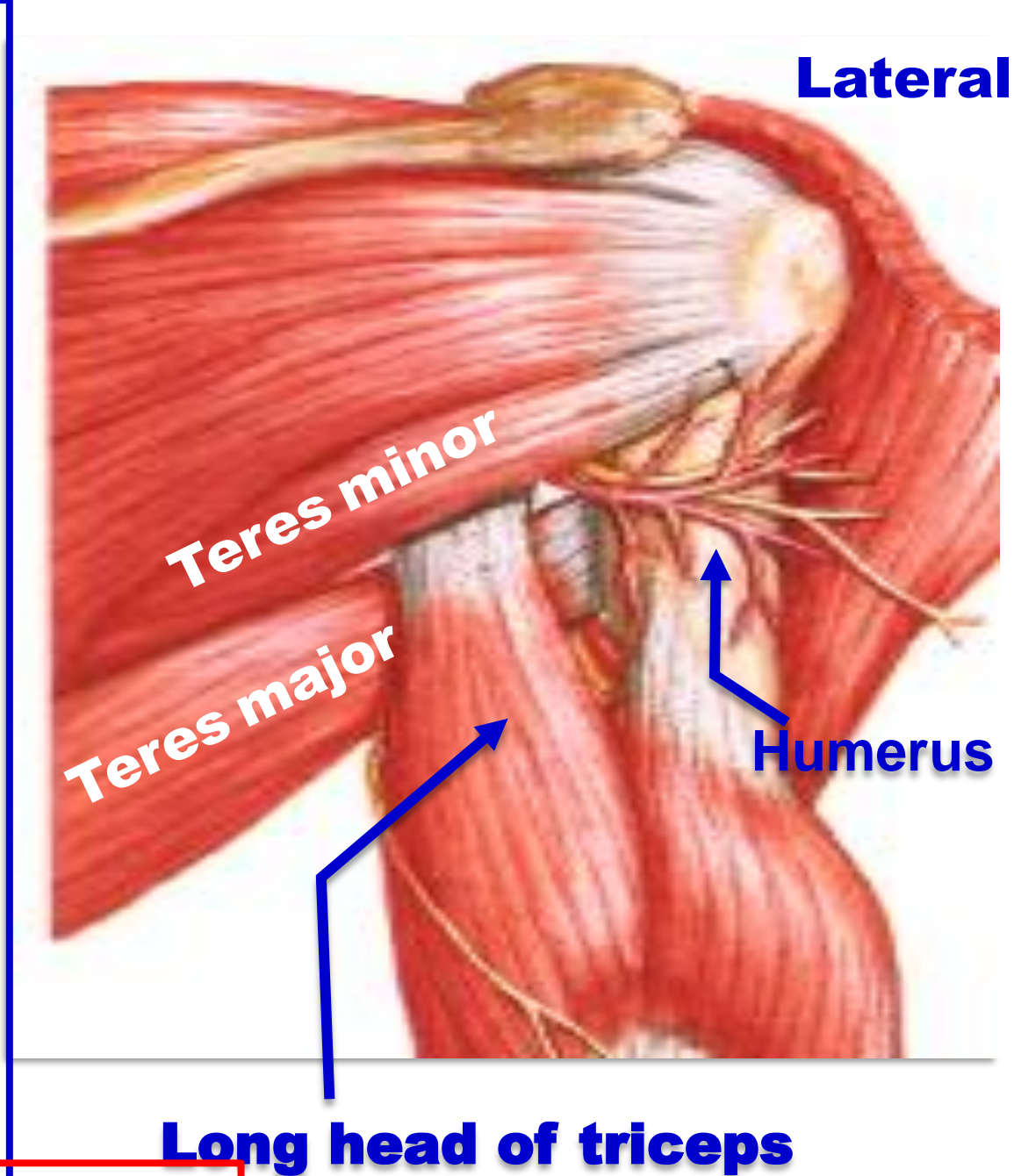
- **Superiorly:** Teres minor, and subscapularis.
- Inferiorly: Teres major.
- **Medially:** Long head of triceps.
- **Laterally:** Surgical neck of the humerus.

** It transmits axillary nerve and posterior circumflex humeral artery.

3- Lower (Lateral) triangular space: boundaries:

- **Superiorly:** Teres major.
- **Medially:** Long head of triceps.
- **Laterally:** Shaft of the humerus.

** It transmits radial nerve and profunda brachii vessels.



https://www.youtube.com/channel/UCVSNqbibj9UWYaJdd_cn0PQ

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Thank You

Questions

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