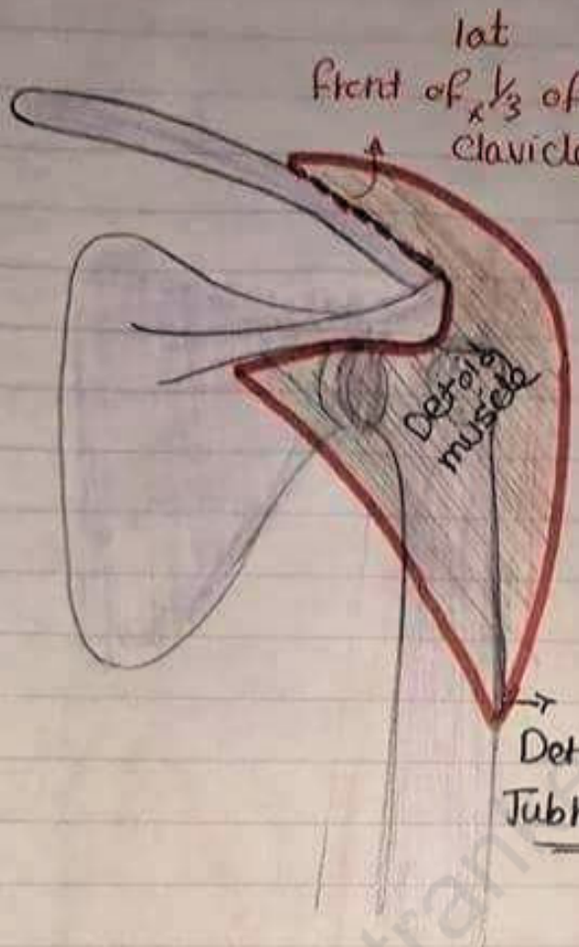
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Deltoid muscle

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Origin :-

① anterior and upper surface of lat. 1/3 of Clavicle.
② lat. border of the acromion Process.
③ lower Lip of the crest of the spine.

Insertion

- Deltoid Tuberosity of the humerus.

N. supply

Axillary n.

Action

anterior
① upper fibers :→
- Flexion and medial rotation of the arm.

② middle fibers :→
- Powerful abductor of the arm.

Post.
③ lower fibers ⇝
- Extension and lat. rotation of the arm

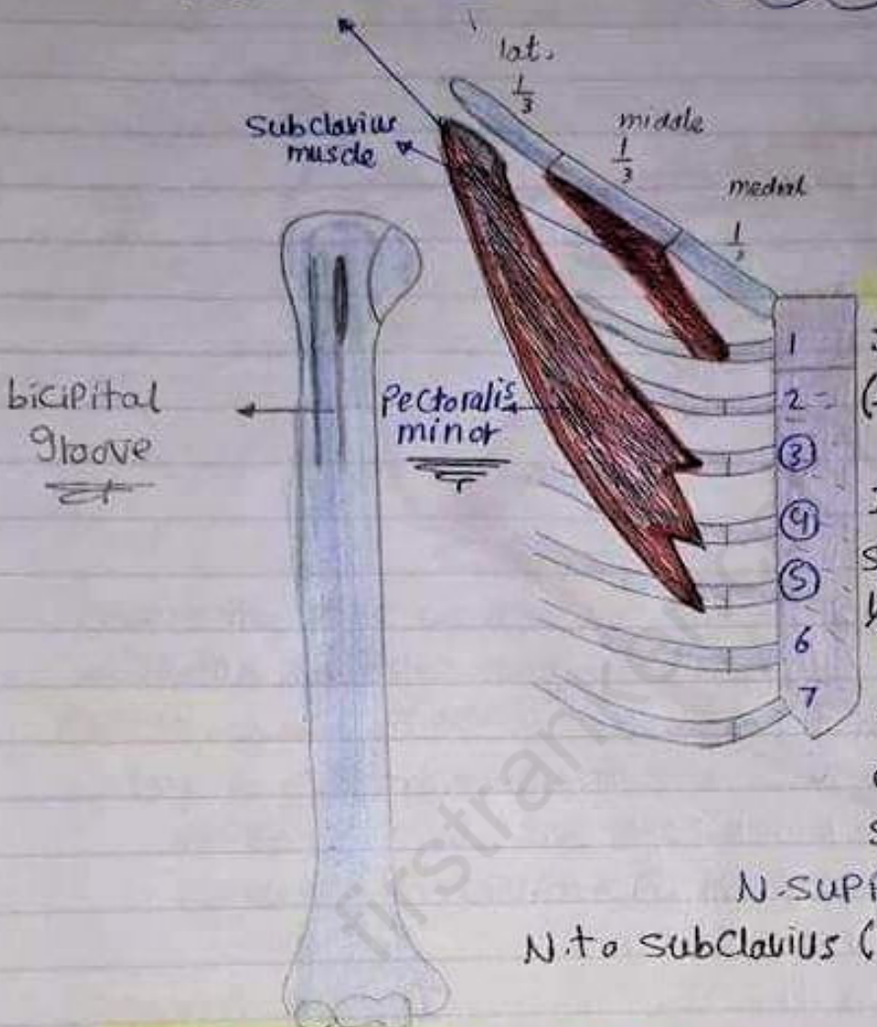
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Pectoralis minor muscle

Coracoid Process

Subclavius muscle



Subclavius

origin :-
1st rib and its costal cartilage (1st costo-chondral junction)

Insertion :-
Into a groove on the lower surface of the middle ⅓ of the clavicle.

Action :-
steadies the clavicle during movement of scapula (shoulder girdle)

N. supply →
N. to subclavius (from upper trunk of brachial plexus)

Pectoralis minor :-

origin :-
- from 3, 4 & 5 ribs near the costochondral junction.

Insertion :-
medial border and upper surface of Coracoid Process.

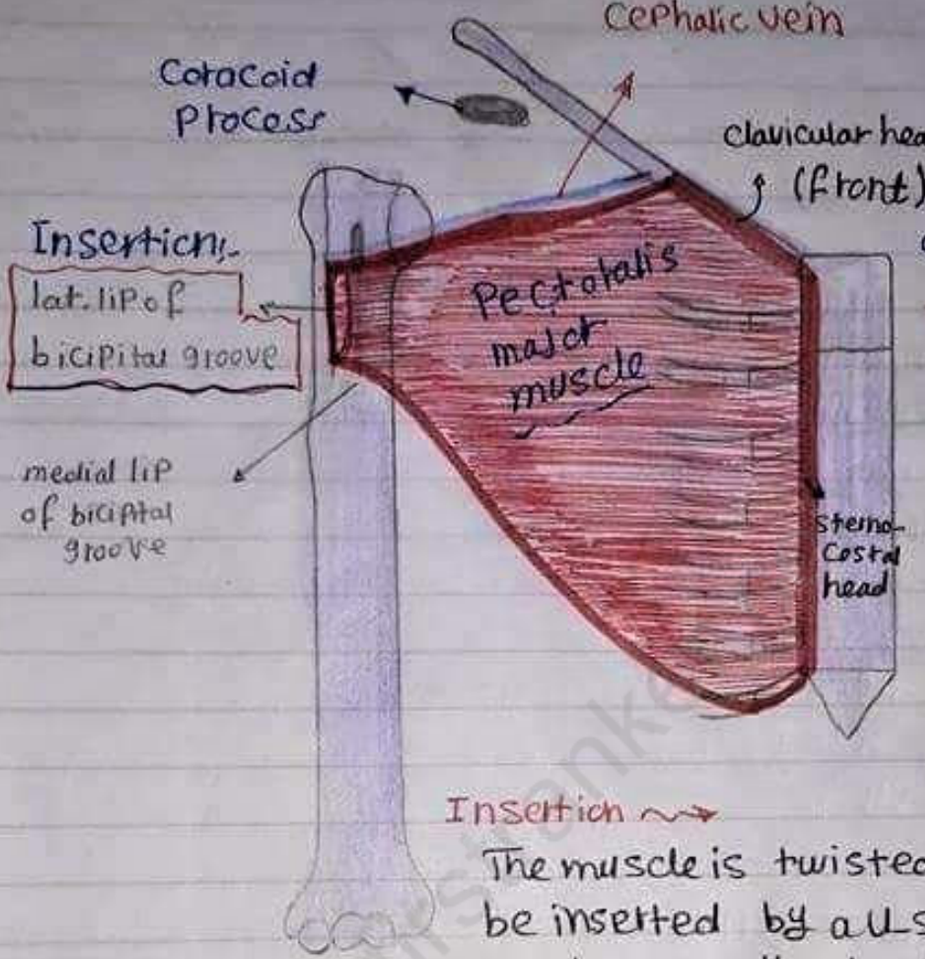
Action :-
- assist serratus ant. in Protraction of scapula.
- help in depression of elevated scapula

N. supply →
med. & lat. Pectoral n.

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Pectoralis major muscle



origin :→
- Clavicular head.
  - medial half of the front of the clavicle
  - lat. half of the front of the surface of sternum and upper six costal cartilage

Insertion ~→
The muscle is twisted upon itself to be inserted by a U-shaped bilaminar tendon into the lat. lip of bicipital groove
- The muscle fibers form the ant. axillary fo
  twisted

N. supply →
1 — lat. Pectoral n.
2 — med. Pectoral. n.

Action :~~~→
① - adduction of shoulder joint
② - medial rotation of the arm.
③ - the clavicular part → Flexion of arm.

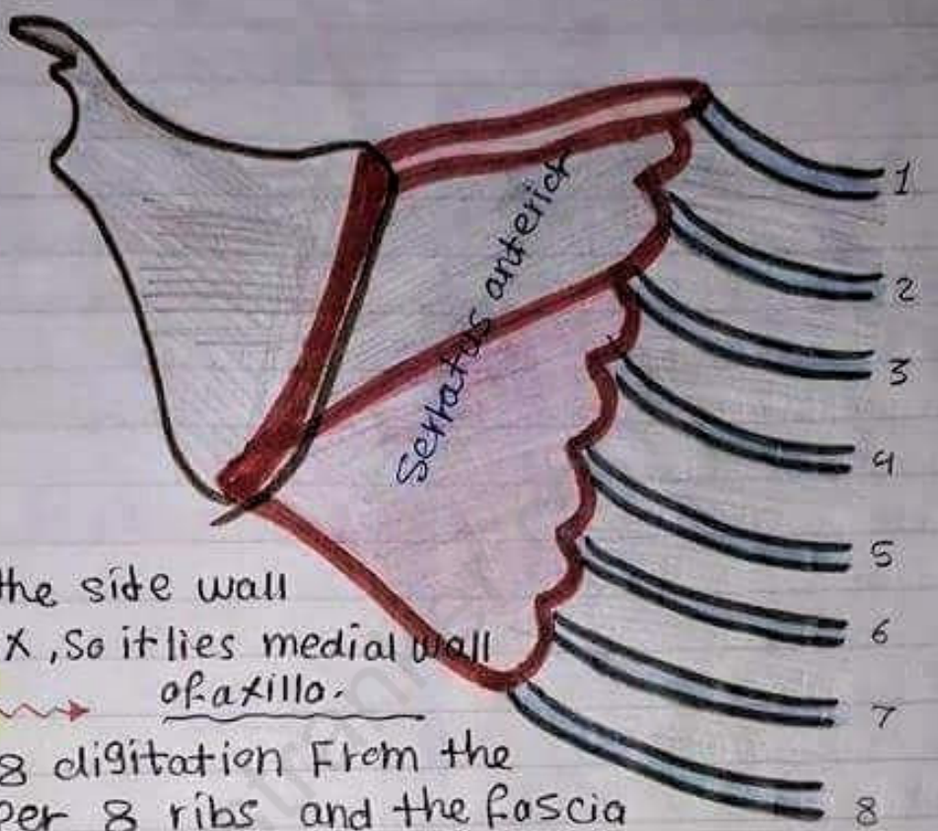
} of arm (shoulder joint)

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Serratus anterior

Action ~~→ - Protract the scapula.
- Upword rotation of scapula



Covers the side wall of Thorax, So it lies medial wall of axilla.

origin ~~→
- By 8 digitation From the upper 8 ribs and the fascia Covering intervening intercostal muscle.

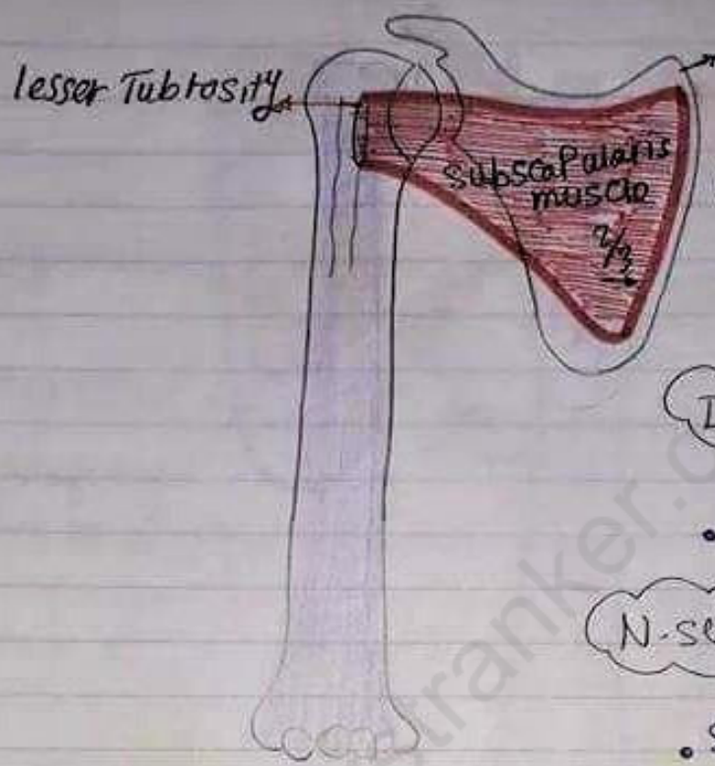
Insertion :-
Ventral aspect of the medial border of the scapula:- as Follows ~~→
- The 1st, 2nd & 3rd digitation ~~separate~~ spread to be inserted into the ventral aspect of the medial border of the scapula
- The lower 5 digitation coverge to be inserted into the front of the inFerior angle of the scapula.

N. supply →
- N. to serratus (Long thoracic n.) $C_{5,6,7}$ From the roots of brachial plexus.

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Subscapularis muscle



Origin

- medial 2/3 of the subscapular fossa.

Insertion

- lesser Tuberosity

N-supply

- Subscapular n.

Action

- medial rotation of the arm.

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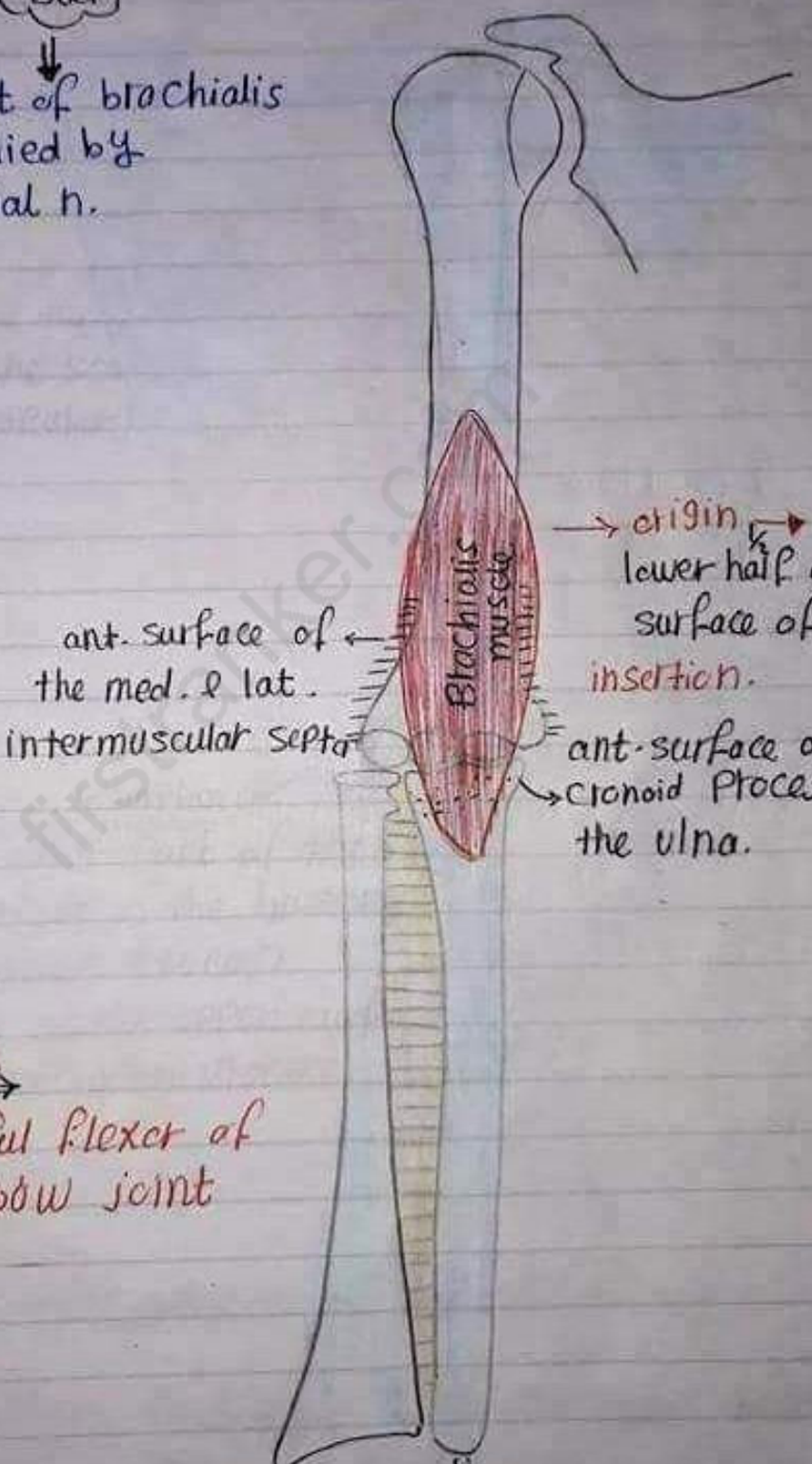
Brachialis muscle

N. supply → musculocutaneous n.

But

↓

lat. Part of brachialis is supplied by Radial n.



origin → lower half of the ant. surface of the humerus

insertion.

ant. surface of the med. & lat. intermuscular septa

ant. surface of coronoid Proces of the ulna.

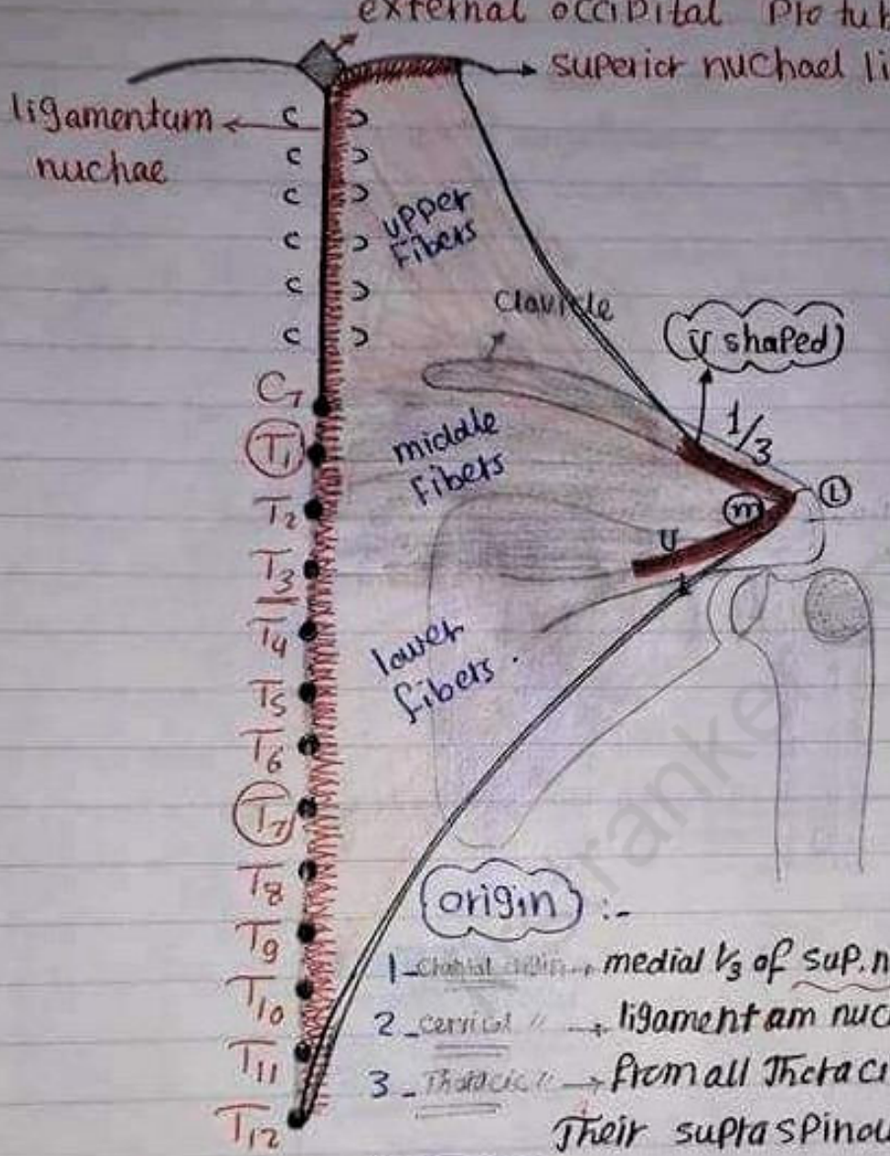
Action →

Powerful flexor of the elbow joint

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Trapezius muscle (important)



Action

1. upper fibers.
   - elevate scapula
   - upward rotation of sca
2. middle fibers.
   - Retract scapula.
3. lower and upper rotate the scapula upwards from 90→180 with lower digitation of serratus anterior.

origin :-

1. Occipital → medial 1/3 of sup. nuchael line and the external occipital protuberance
2. cervical → ligamentam nuchae
3. Thoracic → from all Thoracic spines and their supraspinous ligament.

Insertion :-

1. Post. border of lat. 1/3 of the clavicle
2. medial border of the acromion.
3. upper lip of the crest of the spine of the scapula

N. supply →

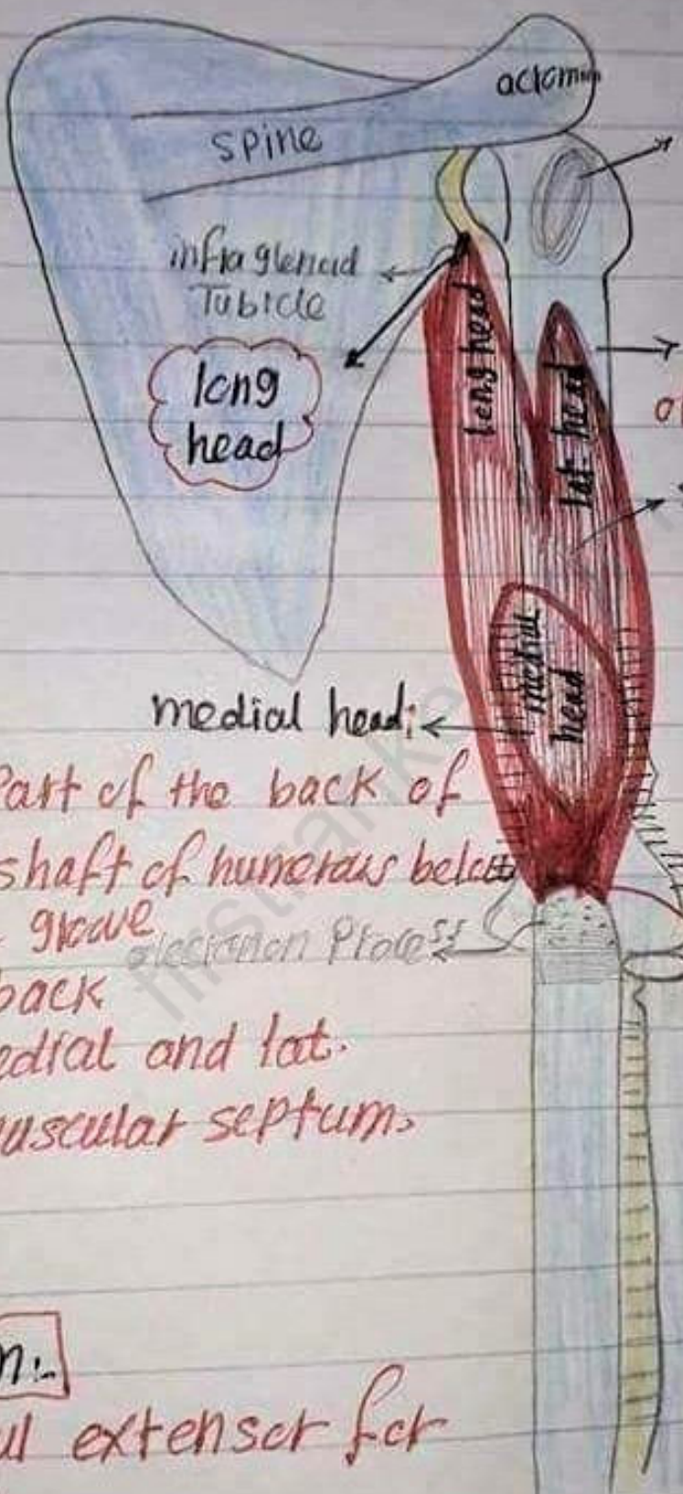
1. motor → spinal accessory n.
2. sensory → C_3. C_4 from the cervical Plexus.

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Triceps muscle

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(m)

(L)

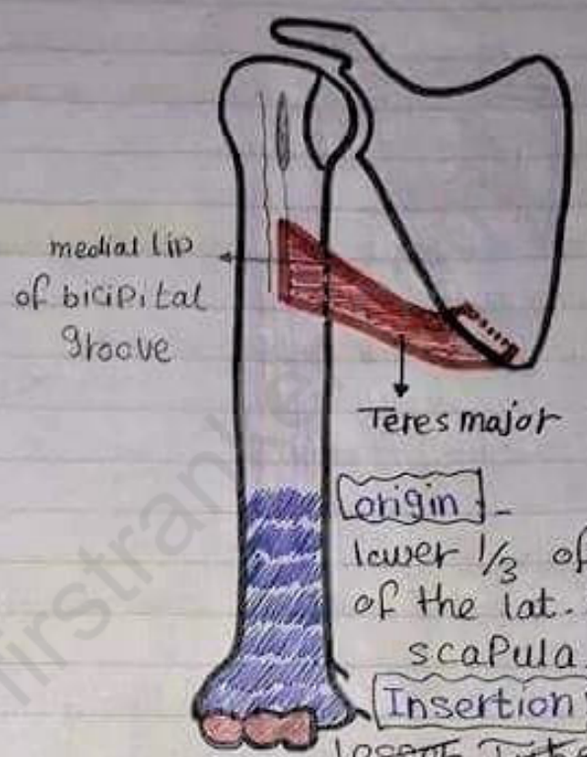
Action:-

- Powerful extenser for elbow.
- support of head of humerus (Long head) in a boulder position.

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(Teres major muscle)



Origin :-
lower 1/3 of dorsal aspect of the lat. border of scapula.

Insertion :-
~~lesser tuberosity~~
medial lip of bicipital groove.

Action :-

- like latissmus dorsi
  1. adduction
  2. Extension
  3. medial rotation

} of arm

N. supply → Lower subscapular n.

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Biceps brachii muscle

origin

flat coracoid Process.

rounded

Transverse humral ligament

long head of bicEPS.

L

m

Short head of biceps.



Isertion →

rounded Tenclon

biceps Tendon

Radial Tubloristy

flat tendon

bicipital aponuosis

skin

Action → • Flexison of elbow joint

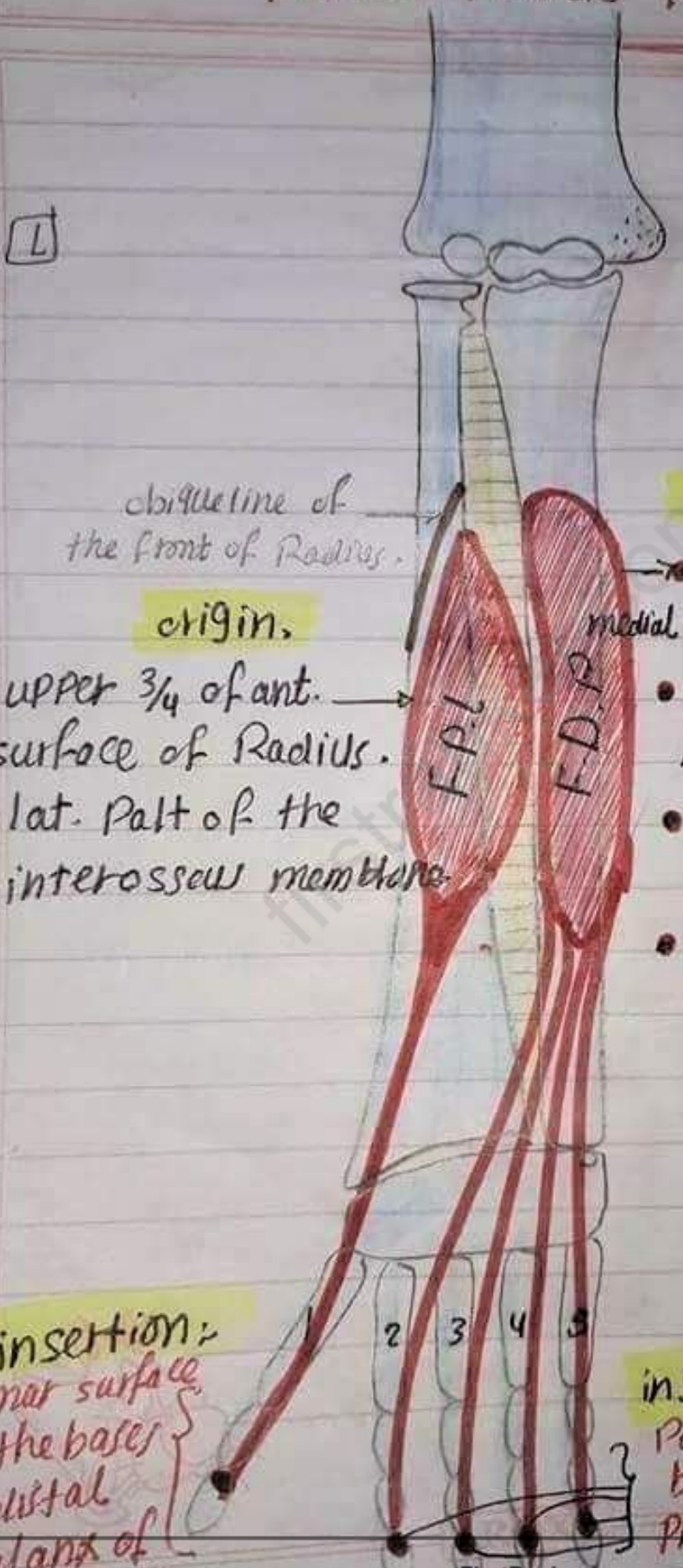
• Powerful supinator of flexed elbow

NB → Biceps blachii intravascular extra synovial.

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Flexer digitorum Profundus & Flexer Policis longus } muscle



origin.

- upper 3/4 of ant. surface of Radius.
- lat. Palt of the interosseus membrane

oblique line of the front of Radius.

origin →

- upper 3/4 of ant. & medial surface of ulna.
- medial Palt of interosseus membrane
- medial surface of coronoid Process
- Ulnar aponurosis of attached to Post. border of ulna

insertion:-

Palmar surface of the bases of distal Phalanx of the thumb.

insertion :-

Palmar surface of the bases of the distal phalanges of medial 4 fingers.

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Flexor digitorum superficialis

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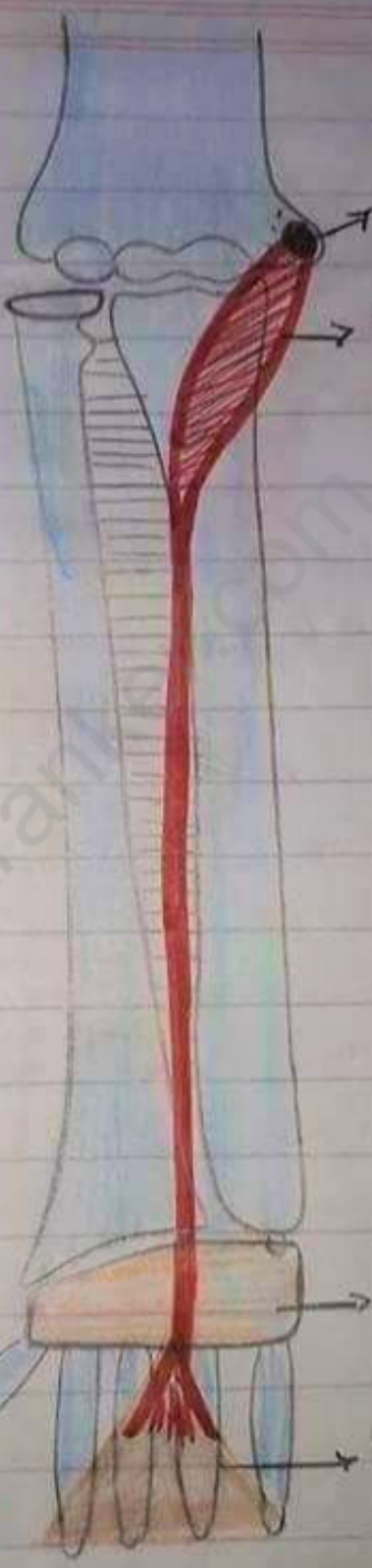
insertion :-

→ The muscle devides into 4 tendons, each split into 2 slips to be inserted into the sides of medial Phalanx of medial 4 Fingers.

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Palmaris longus muscle



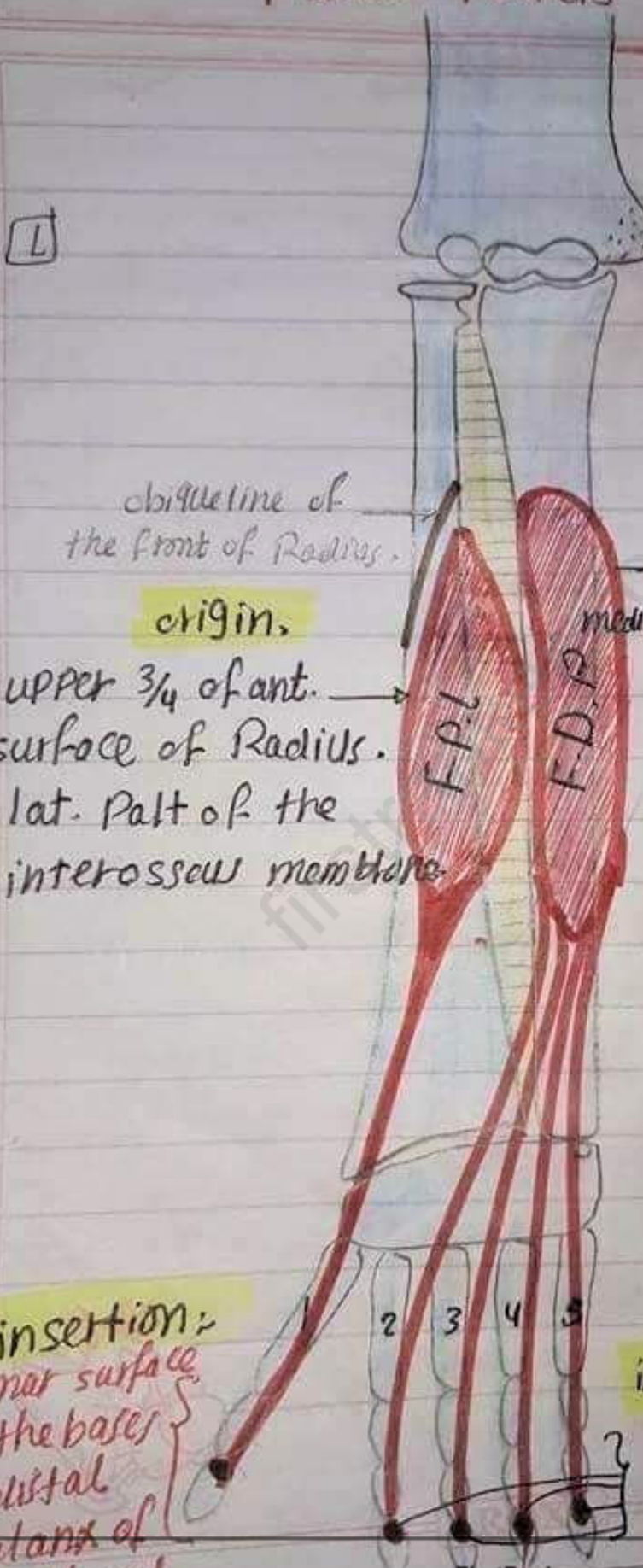
insertion:-
Distal ½ of the flexor retinaculum and apex of Palmar aponuroses

Action → Flexsion wrist (weak Flexor)

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Flexor digitorum Profundus / Flexor Policis longus } muscle



origin.

- upper 3/4 of ant. surface of Radius.
- lat. Palt of the interosseus membrane

oblique line of the front of Radius.

origin →

- upper 3/4 of ant. & medial surface of ulna.
- medial Palt of interosseus membrane
- medial surface of coronoid Process
- Ulnar aponurosis of attached to Post. border of ulna

insertion:-

Palmar surface of the bases of distal phalanx of the thumb.

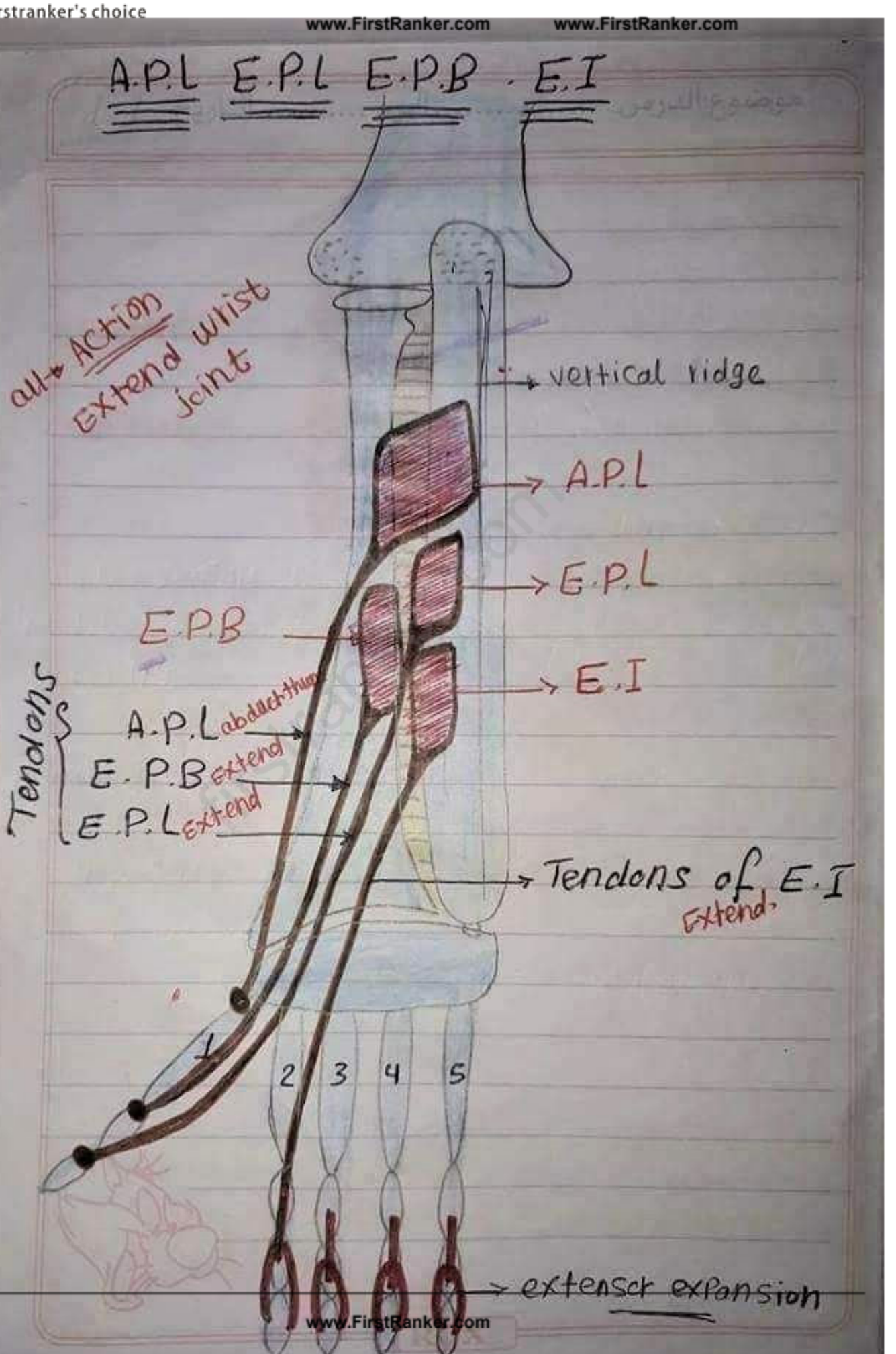
insertion:-

Palmar surface of the bases of the distal phalanges of medial 4 fingers.

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A.P.L E.P.L E.P.B . E.I

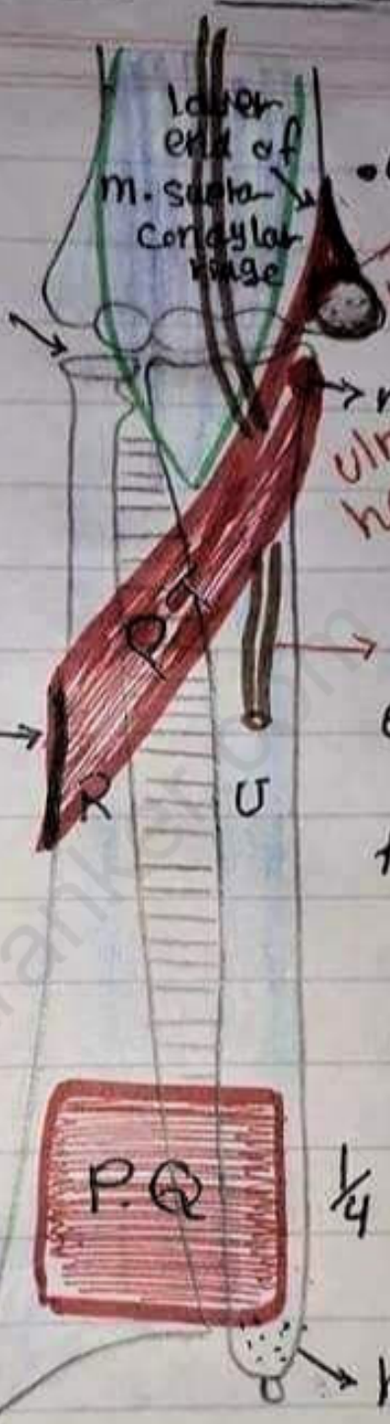


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Front of the forearm → P.T muscle

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- Common flexor origin (front of medial epicondyle)
- medial side of coronoid Process.

head of ulna

L

m

→ median n. → enter the forearm by passing between two heads of P.T

middle part of the lat. surface of Radius.

insertion ~~origin~~ → lower ¼ of ant. surface of Radius.

1/4

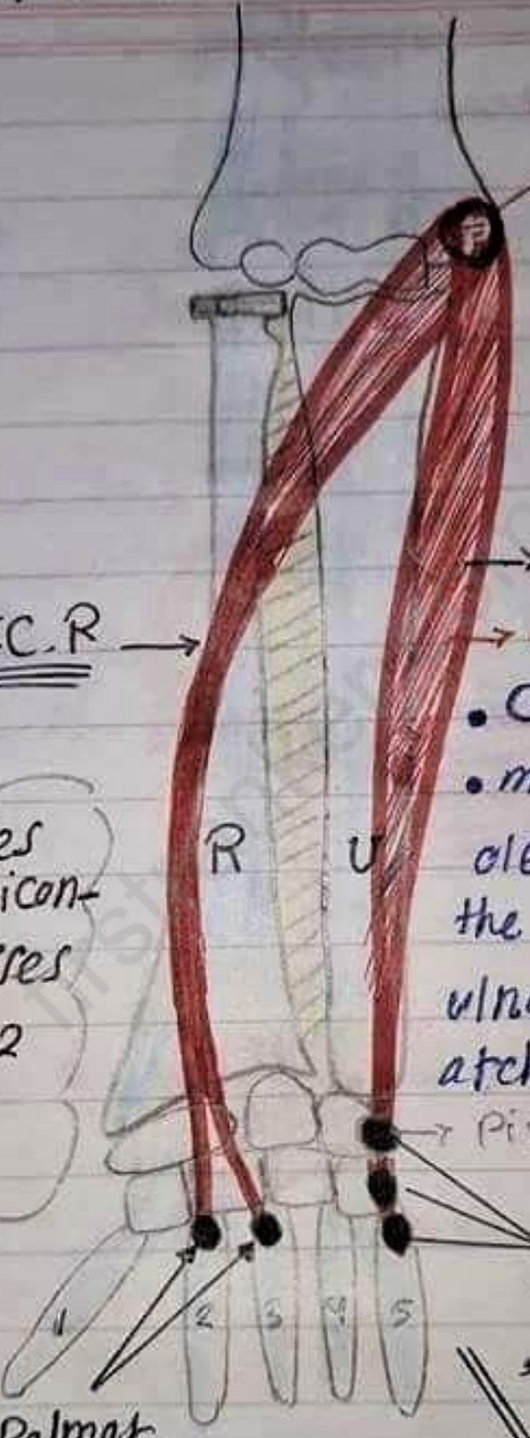
1/4 origin

→ head of Radius

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→ { Flexor Carpi Radialis
→ Flexor Carpi Ulnaris } muscle



- Common flexor origin
- medial margin of the olecranon process of the ulna and by the ulnar apponurosis attached to upper 2/3 of Post. border of ulna

N.B →

ulnar n. Passes behind m. epicondyl and Passes between the 2 heads of F.C.U

Palmar surface

Palmar surface of Pisiform

- hamate by Pisohamate ligament, base of 5th metacarpal bone.

Palmar surface of the bases of 2nd and 3rd metacarpal bone.

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E.C.U
E.C.R. Longus
E.C.R Brevis
} musles

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origins
lower 1/3 of lat. supracondylar ridge

origin of brachioradialis upper 2/3

common extensor origin (front of the lat. humeral epicondyl)

olecranon Process

E.C.R.L
E.C.R.B
E.C.U

(L)

(m)

ulnar aponurosis from the Posterior border of the ulna.

Action ⟹
- Extension of the wrist joint.
- Abduction and adduction.

Flexor retinaculum

Insertion
back of the base of the 5th metacarpal bone

1 2 3 4 5

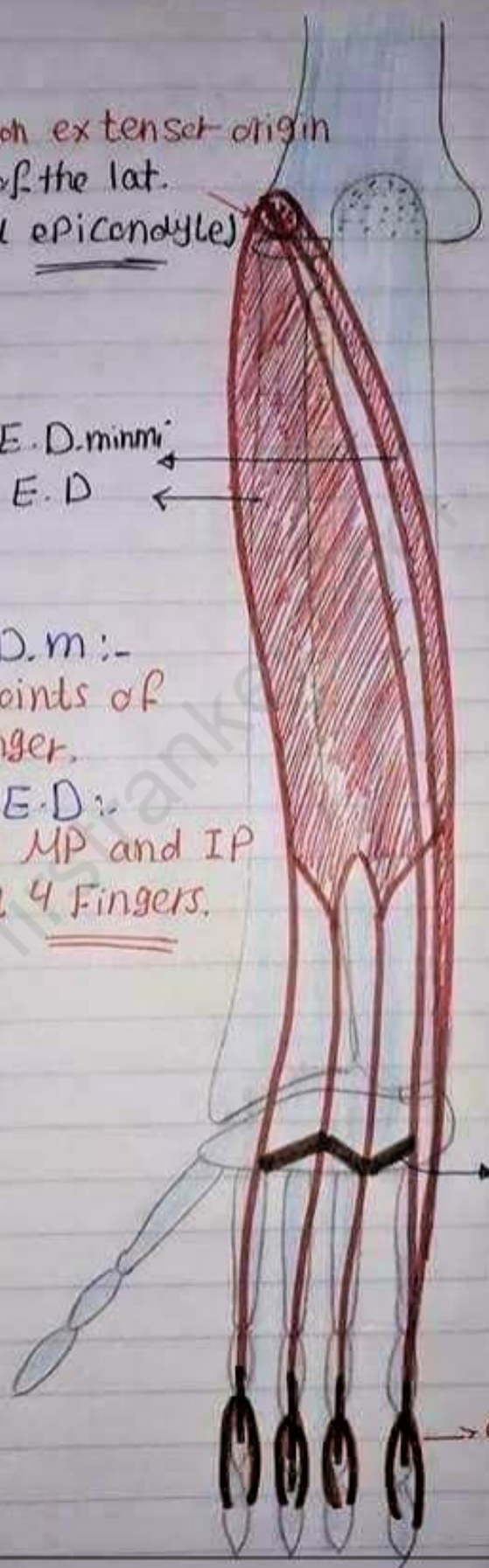
Insertion ⟹
- back of the base of 2nd meta
- back of the base of the 3rd metacarpal bone

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E.D ?
E. D.m ? muscles

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N. supply :-
Radial n.

Action of E.D.m :-
Extend all joints of the little finger.

Action of E.D :-
Extend the MP and IP of the medial 4 Fingers.

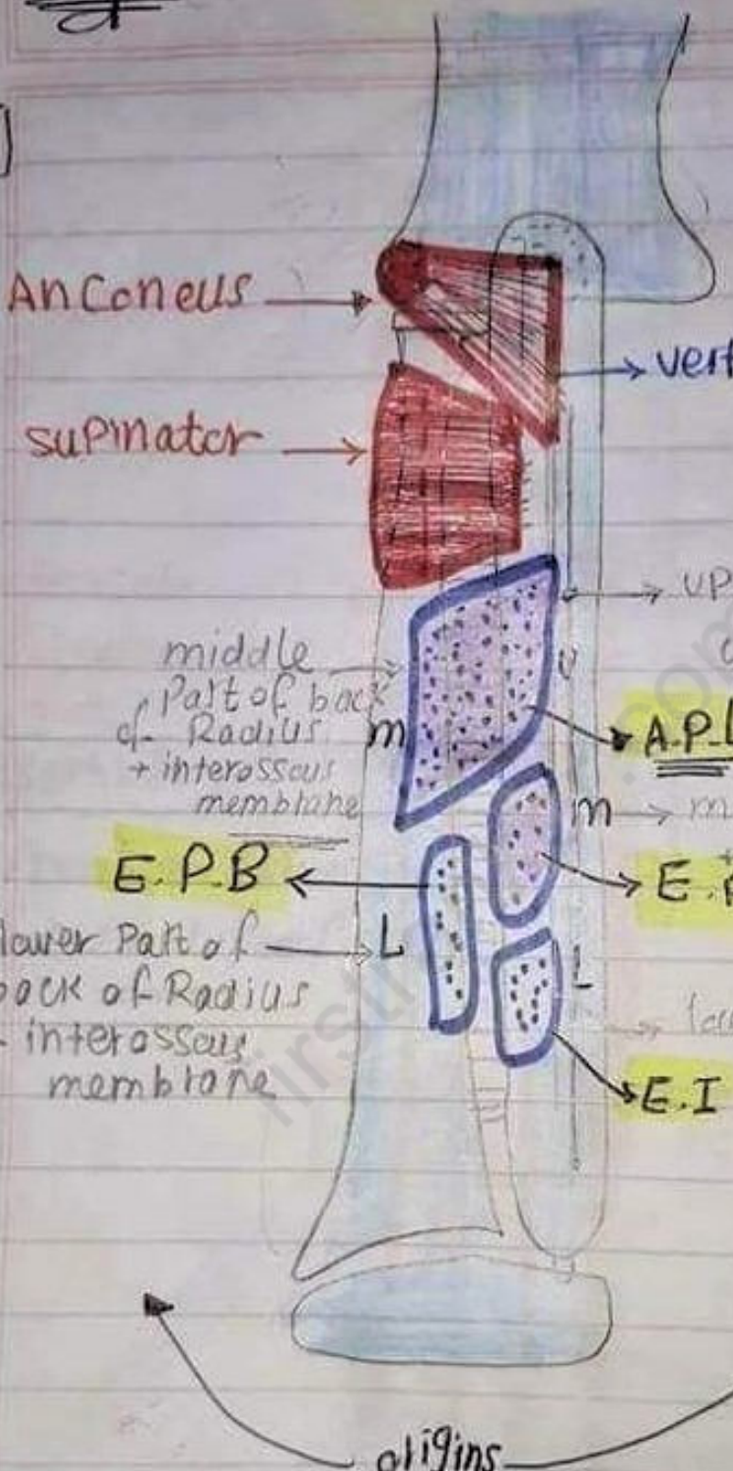
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origins of A.P.L E.P.L E.P.B E.I

Complete

L m



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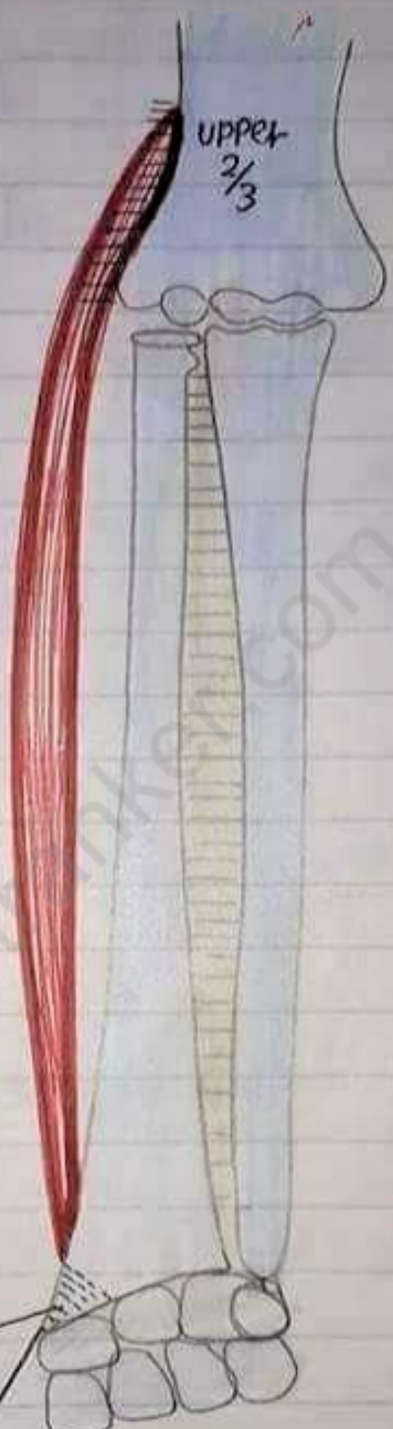
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Brachioradialis muscle

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origin :-
upper 2/3 of the lat. supracondylar ridge of the humerus.

[L] [M]



Action :-
- Flexion of the elbow in mid-Prone Position.
- initiation and prona or supination of the forearm.

Insertion :-
lat. side of the base of the styloid Process of the ulna.

N. supply →
median n.

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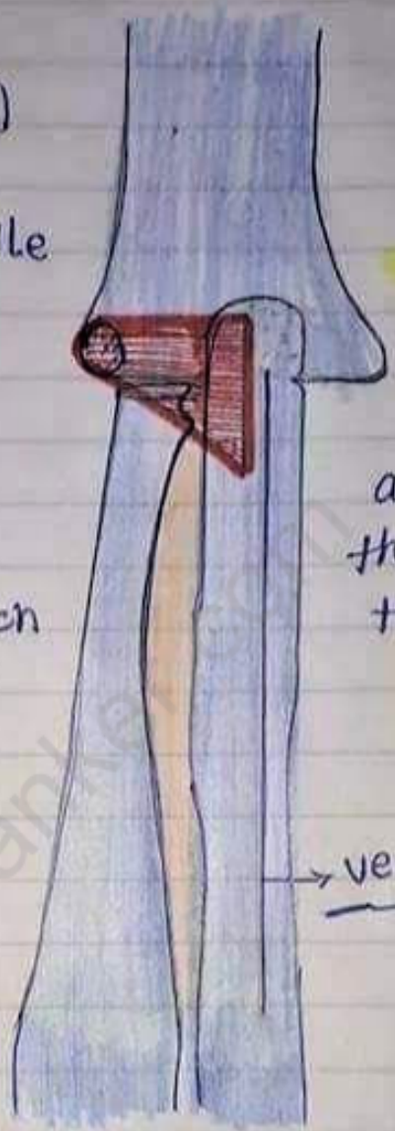
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Anconeus muscle

origin :→
- back of lat. epicondyle of the humerus.

Action :→
Assist in extension of elbow joint.

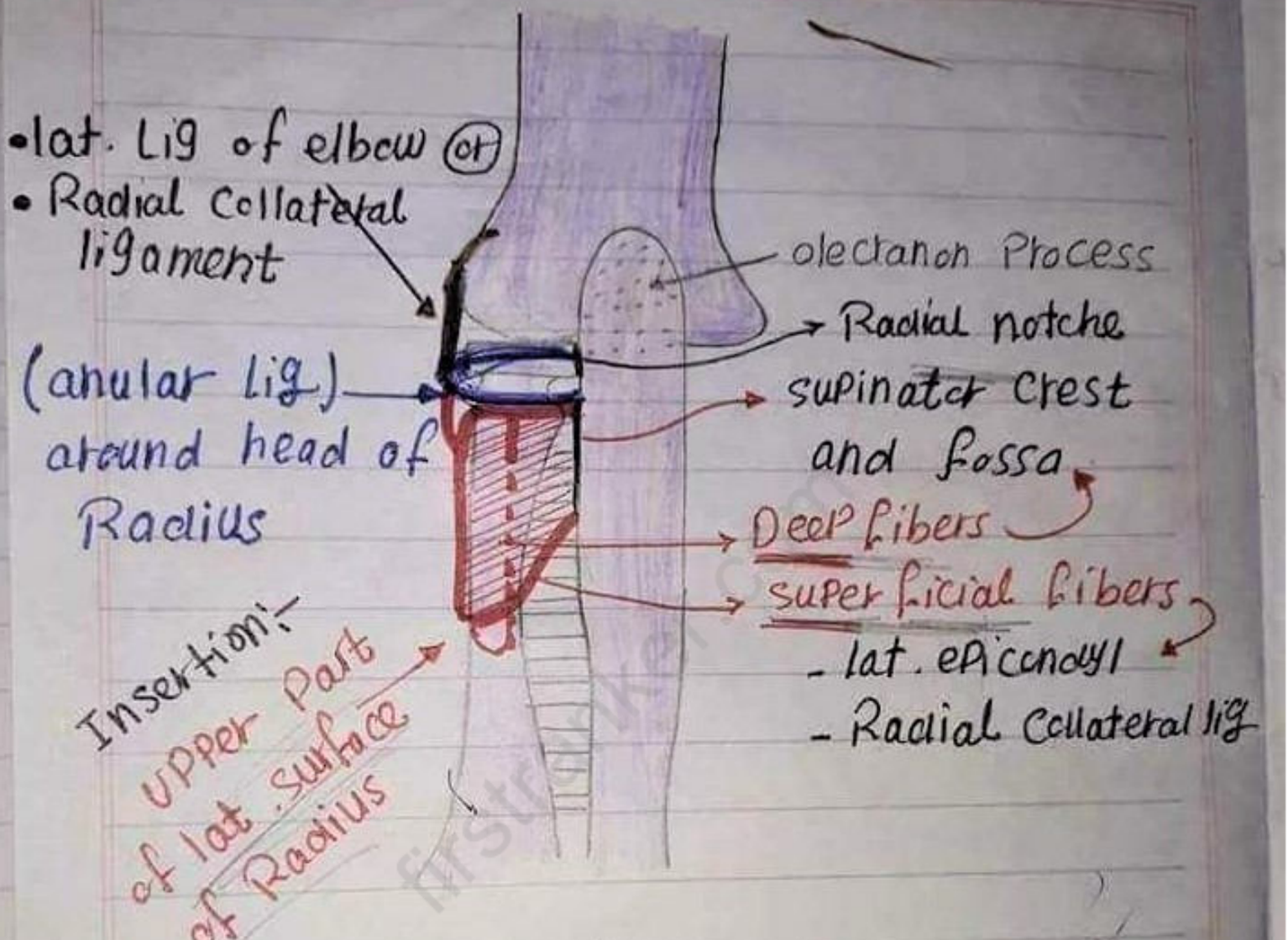


Extension :→
lat. side of the olecranon Process and the upper of the Post. surface of the ulna.

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=((supinator muscle))=



N-supply :-
Radial n.

Question →
muscles attached to lat. border of Radius..

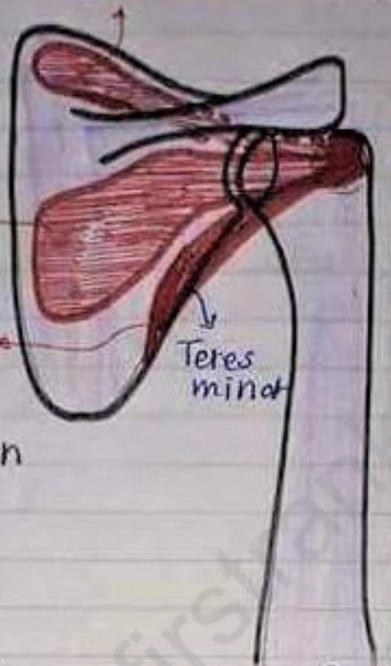
① upper Part. → supinator
② - middle Part → Pronator. T
③ - lower Part → brachioRadialis

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Supscapularis
Infraspinatus
Teres minor
} muscles

suprospinatus → abduction (0-15°)



Suprospinatus:-

origin:-
medial 2/3 of suprospinous fossa

Insertion
upper impression of the grater Tuberosity.

N. supply →
Suprascapular n. (C_5-C_6)

Action →
Initiation of abduction of shoulder joint (0 → 15)

Infraspinatus

origin → medial 2/3 of infraspinous fossa.

Insertion → middle impression of grater Tuberosity

N. supply → suprascapular n.

Action → Lat. rotation of the arm.

Teres minor

origin → upper 2/3 of of the dorsal aspect of the lat. border of scapula.

Insertion → lower impression of grater Tuberosity.

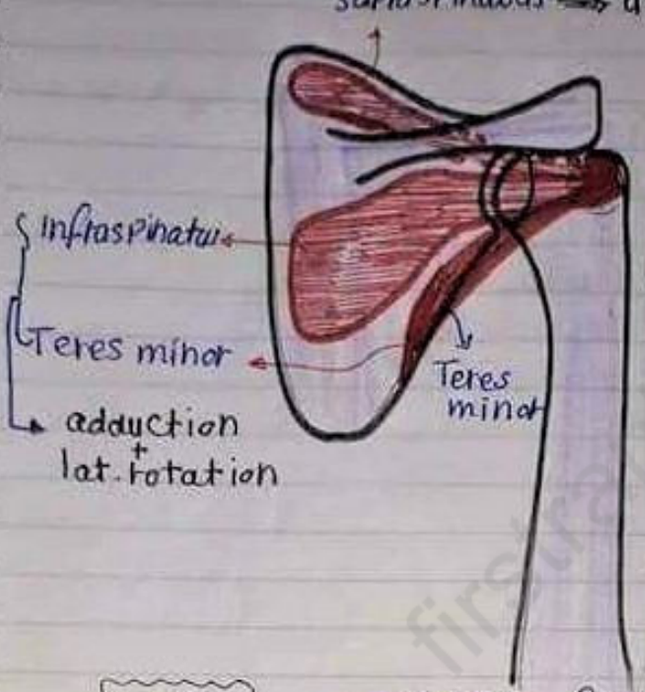
N. supply → Axillary n.

Action → lat. rotation of the arm.

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Supscapularis
Infraspinatus
Teres minor
} muscles



supraspinatus:-

origin:-
medial 2/3 of supraspinous fossa

Insertion
upper impression of the grater Tuberosity.

N. supply →
Suprascapular n. (C_5-C_6)

Action →
Initiation of abduction of shoulder joint (0 → 15)

Infraspinatus:

origin → medial 2/3 of infraspinous fossa.

Insertion → middle impression of grater Tuberosity

N. supply → suprascapular n.

Action → Lat. rotation of the arm.

Teres minor

origin → upper 2/3 of of the dorsal aspect of the lat. border of scapula.

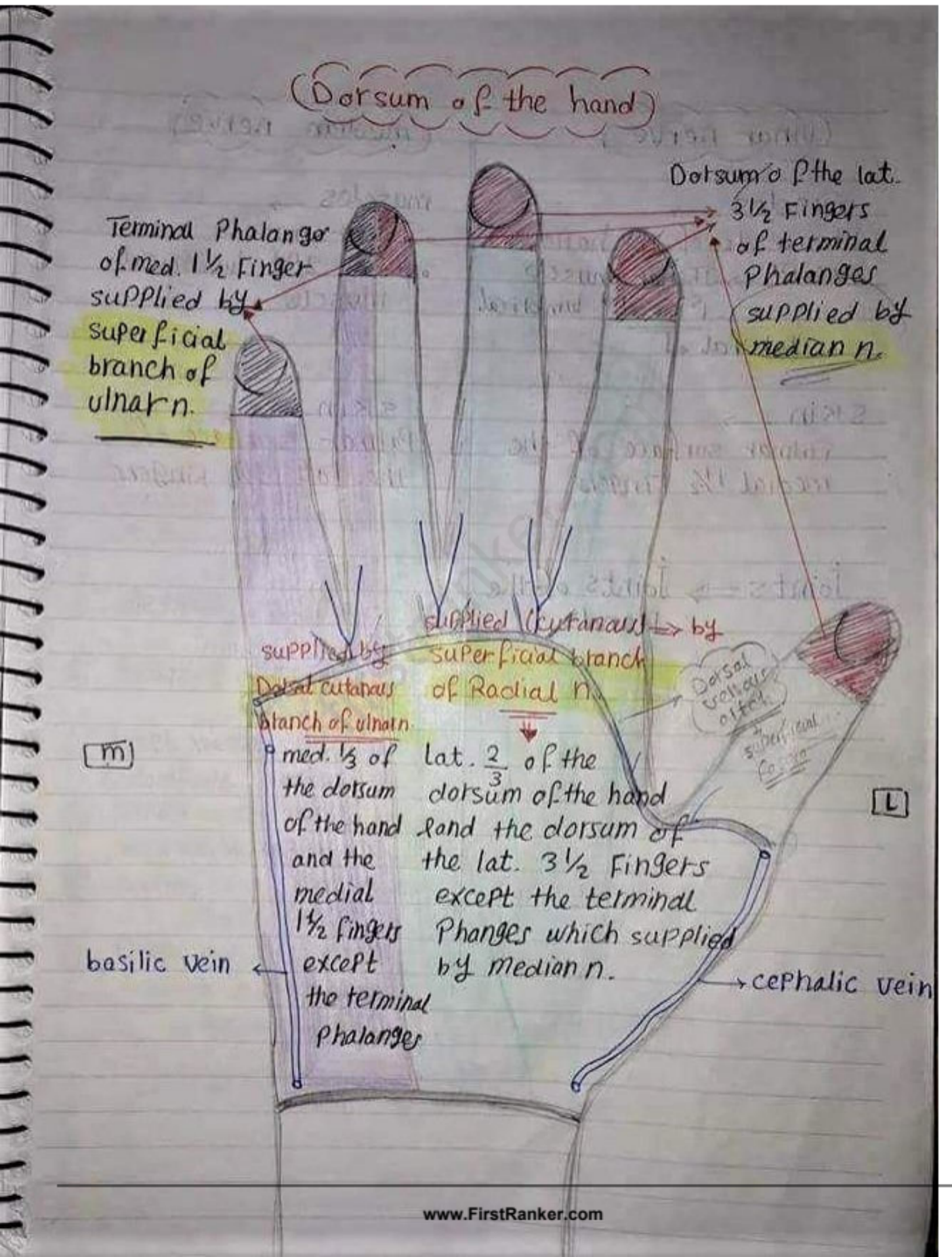
Insertion → lower impression of grater Tuberosity.

N. supply → Axillary n.

Action → lat. rotation of the arm.

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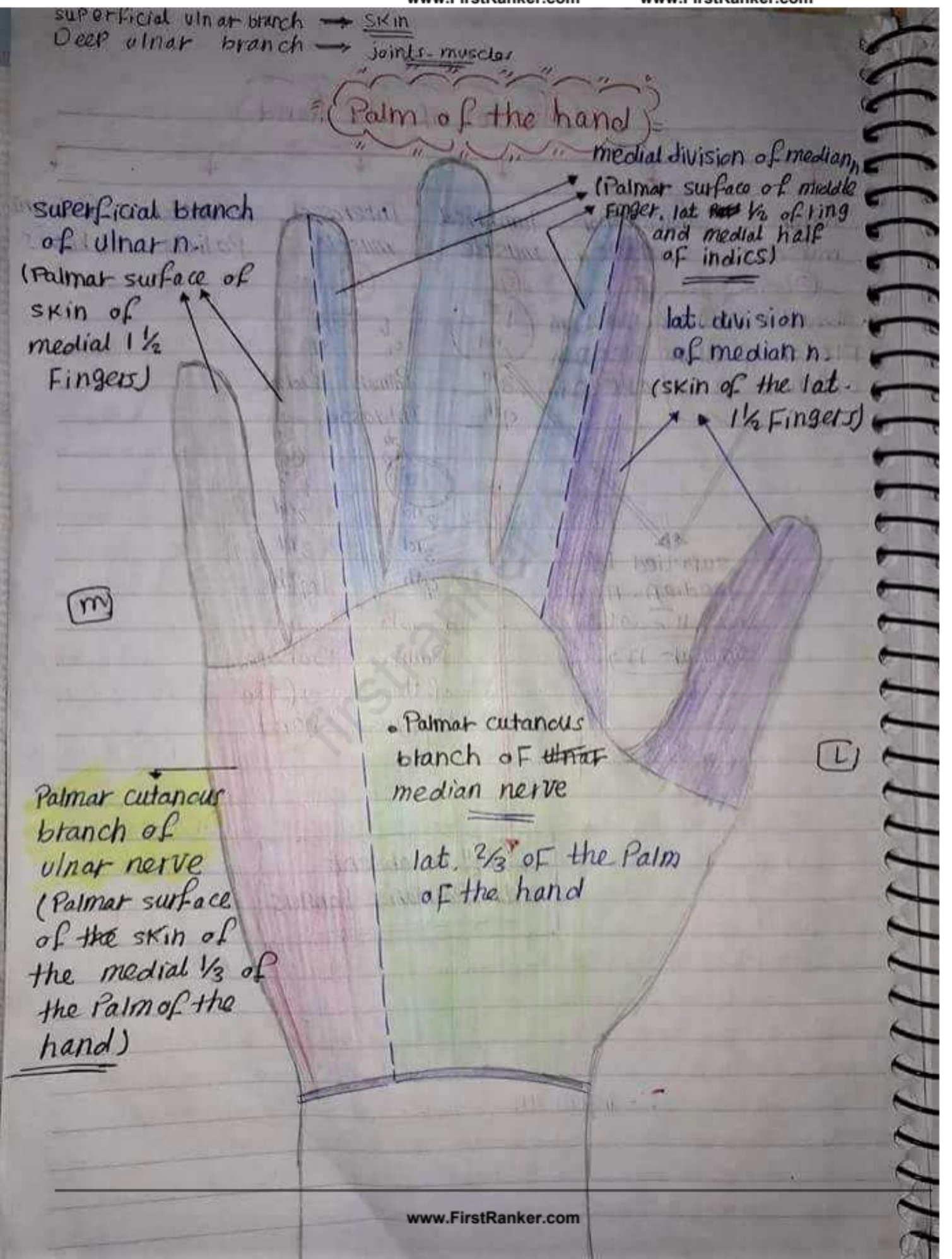


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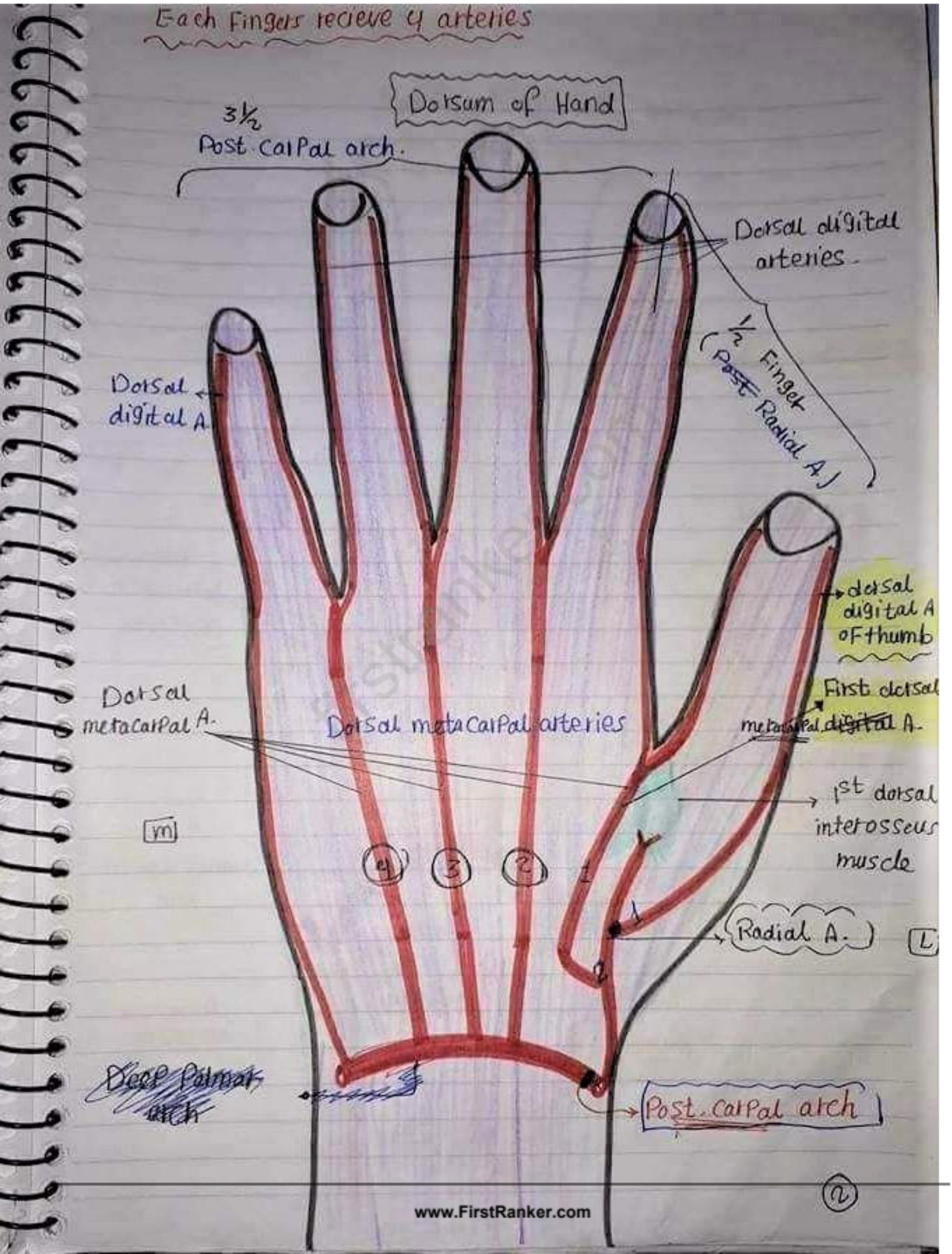
superficial ulnar branch → skin
Deep ulnar branch → joints - muscles

Palm of the hand



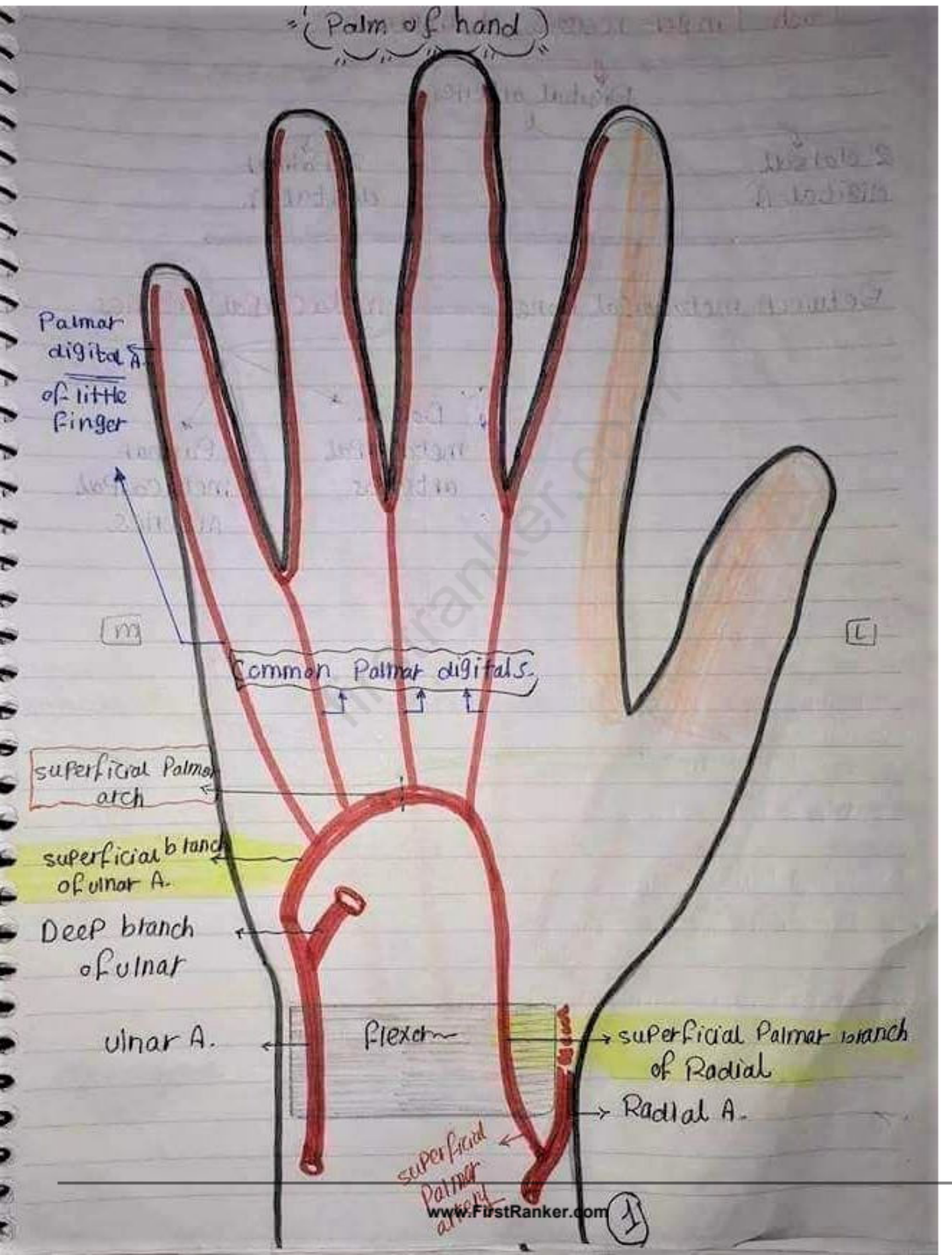
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