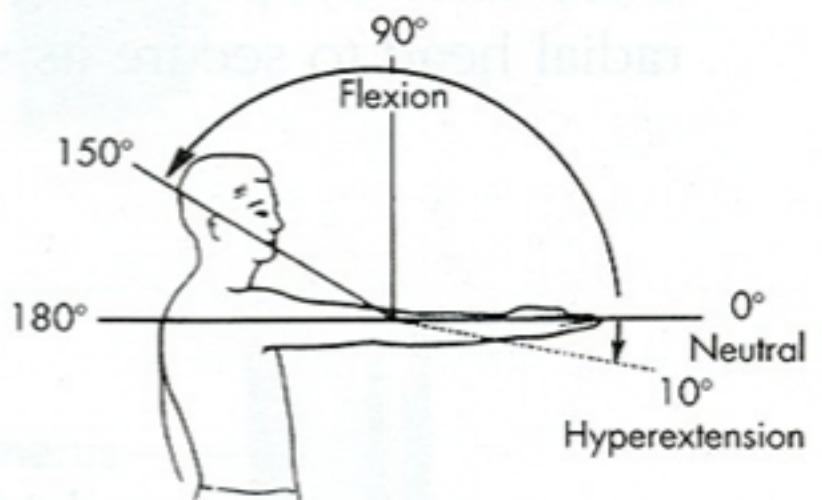


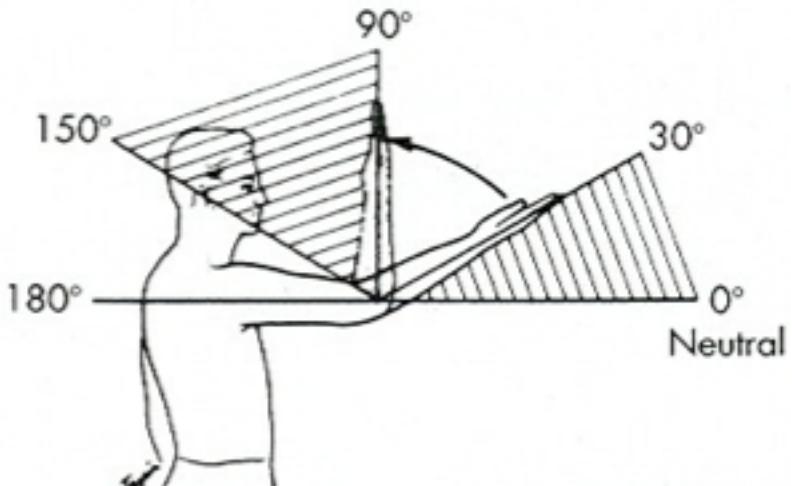
A close-up photograph of a person's right arm and hand in profile, facing right. The person is flexing their bicep, with the hand clenched into a loose fist. The background is a plain, light color.

Pohyby loketního kloubu a zápěstí

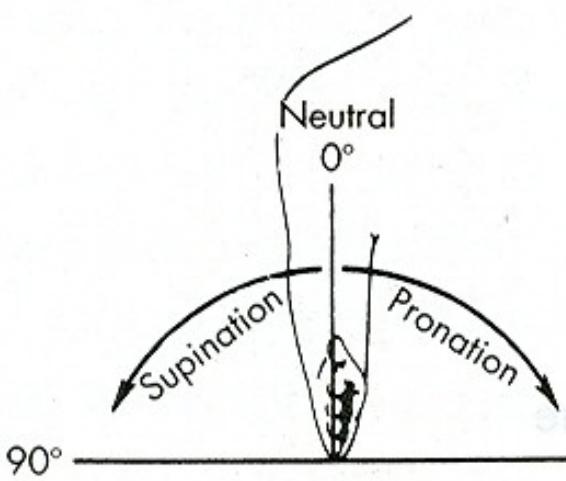
Mgr. Klára Vomáčková



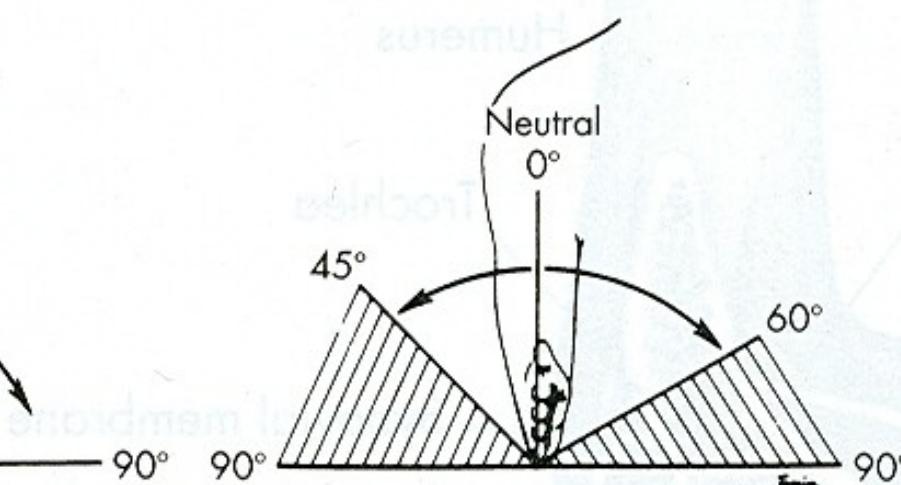
A



B

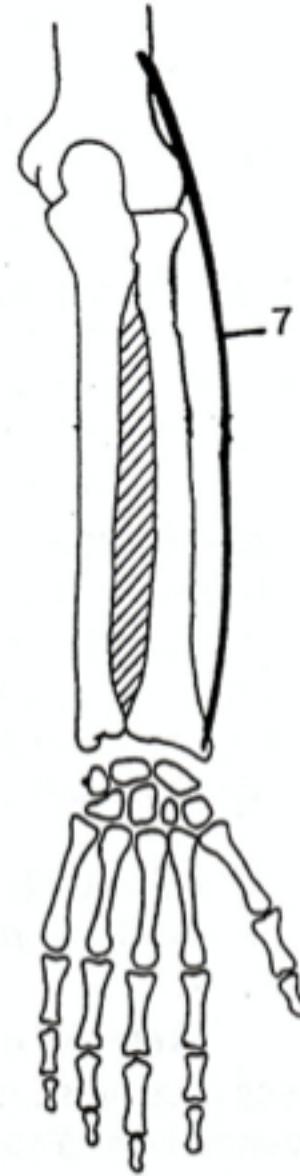
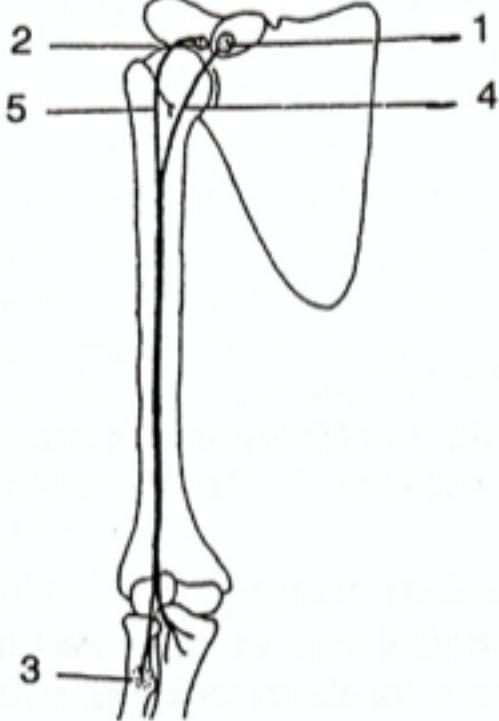
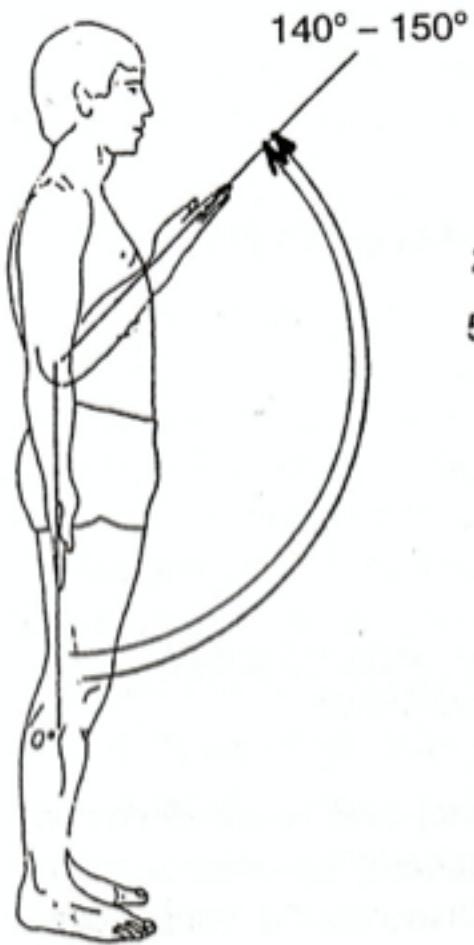


A



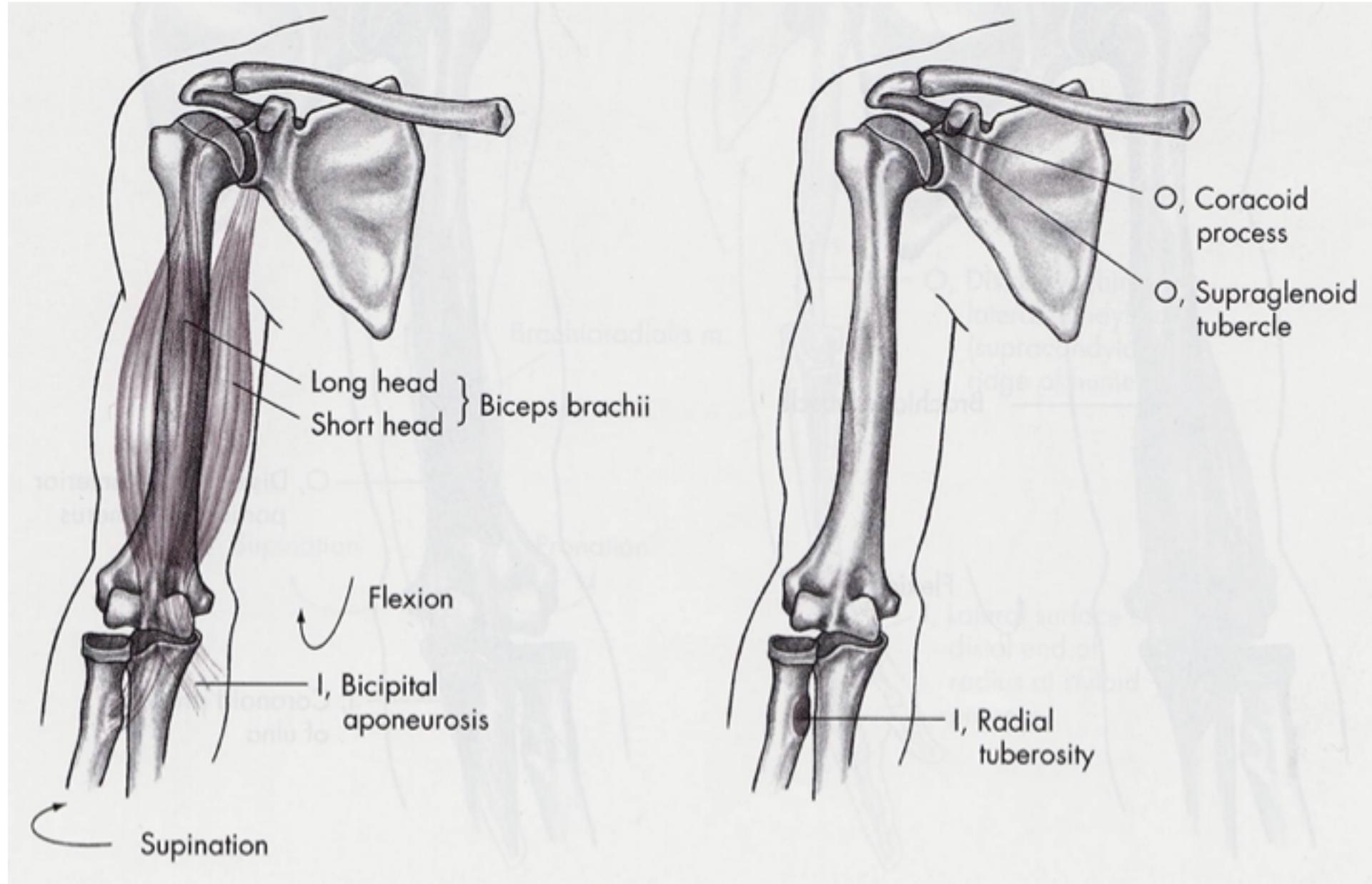
B

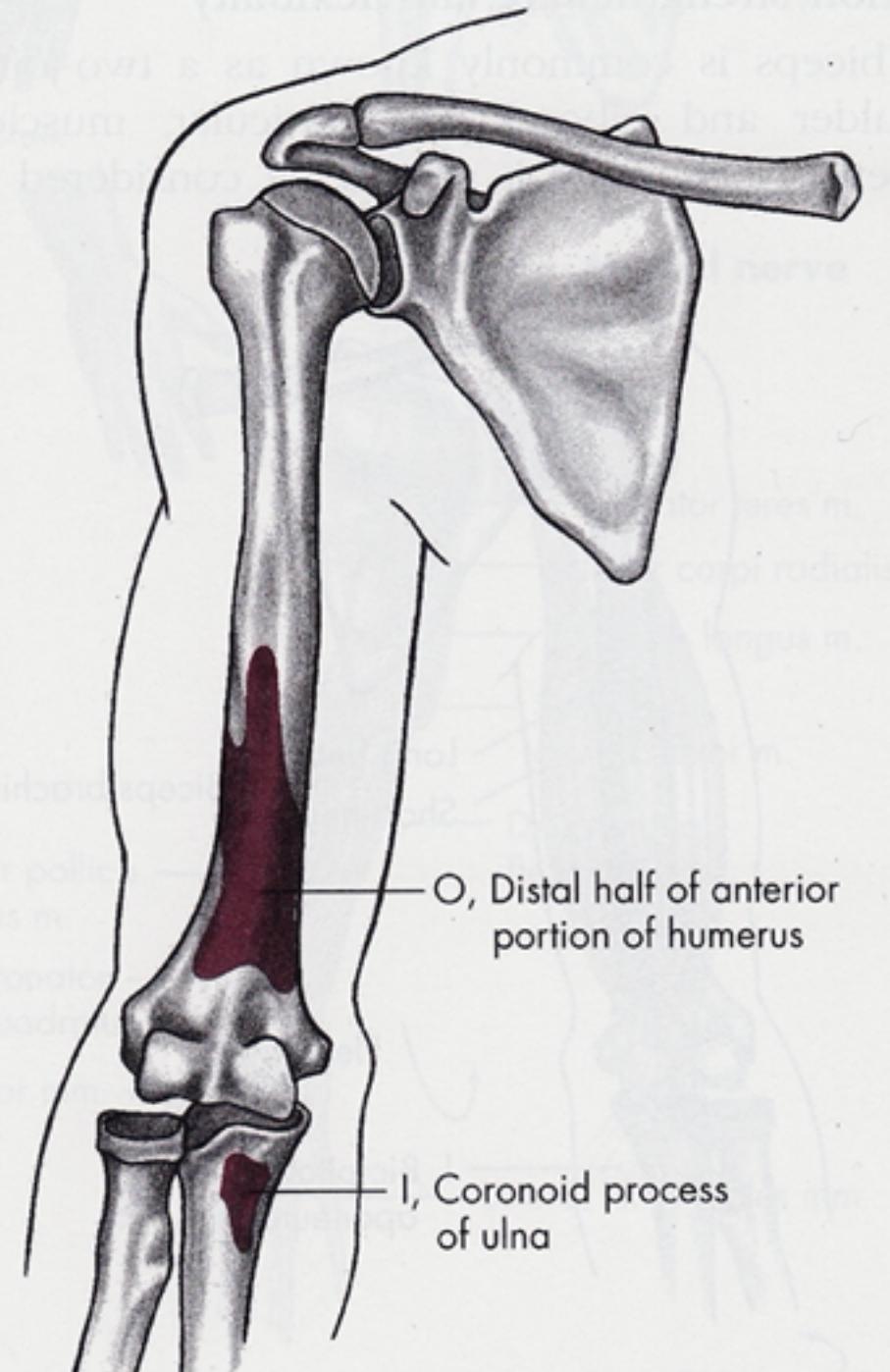
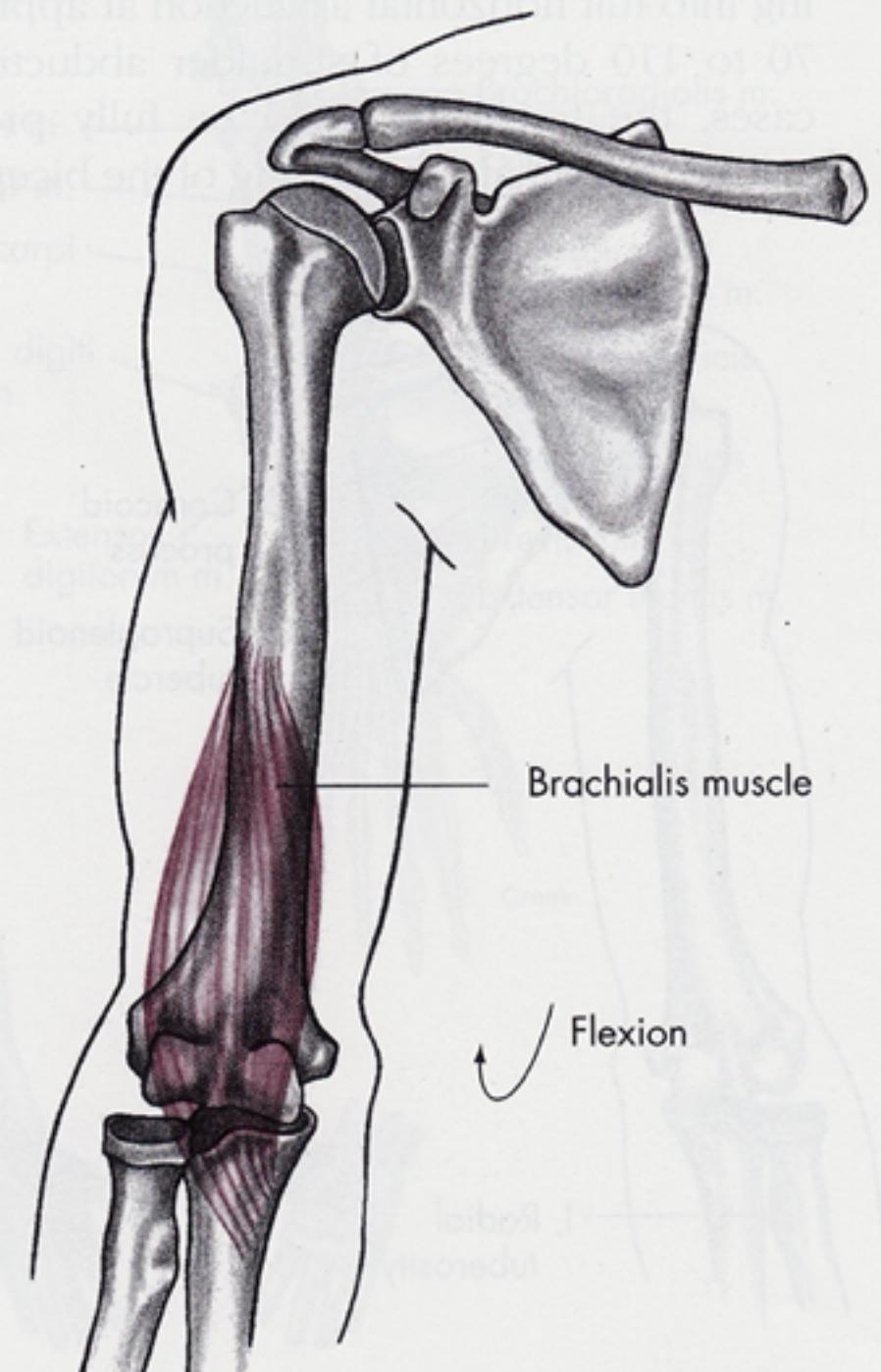
Flexe



Flexe

- M. biceps brachii
- M. brachialis
- M. brachioradialis

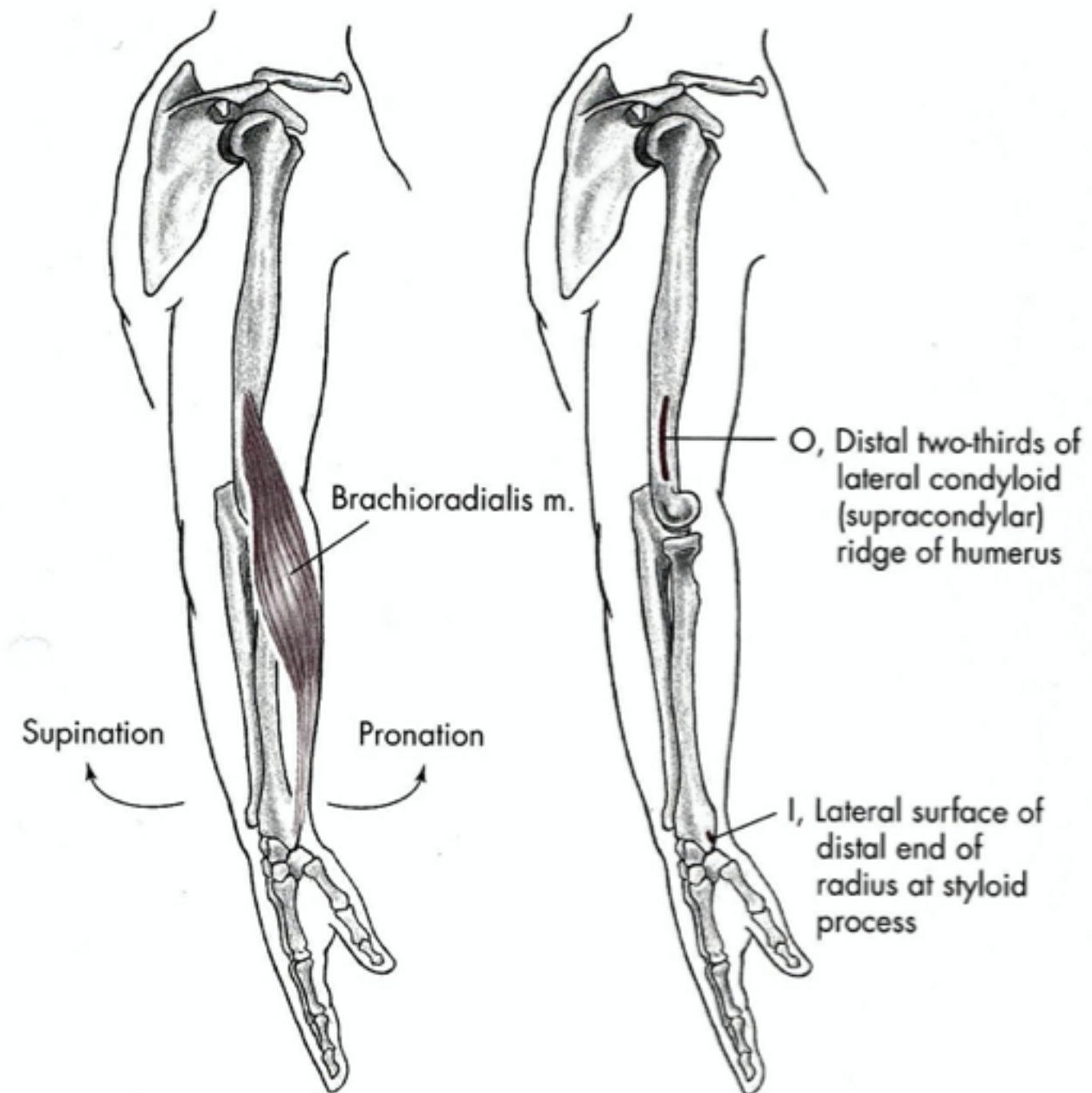




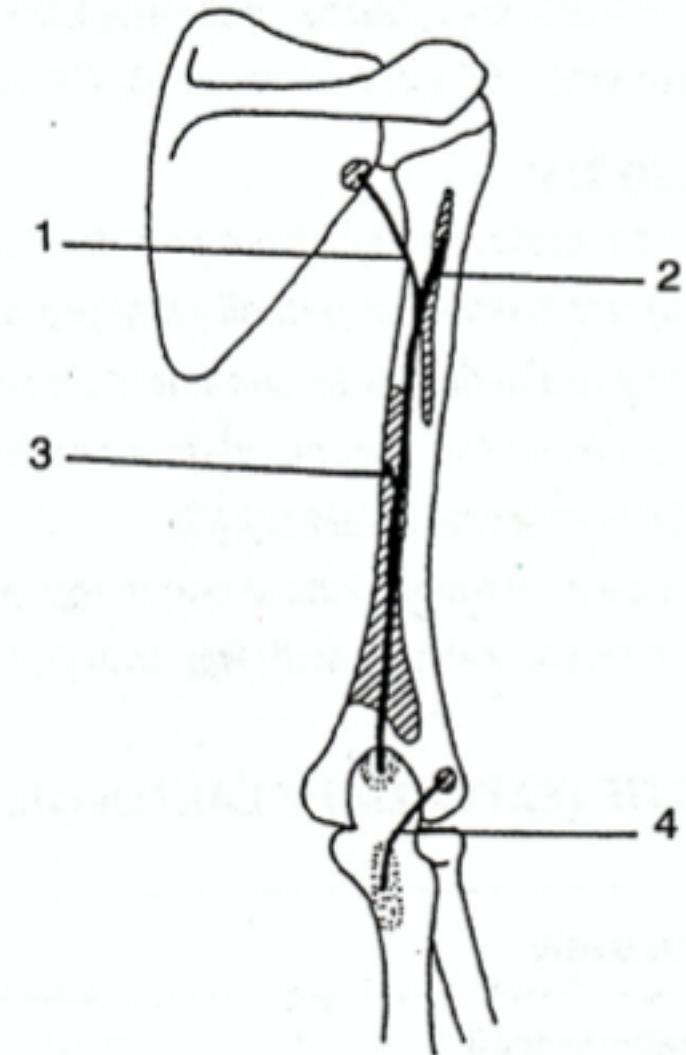
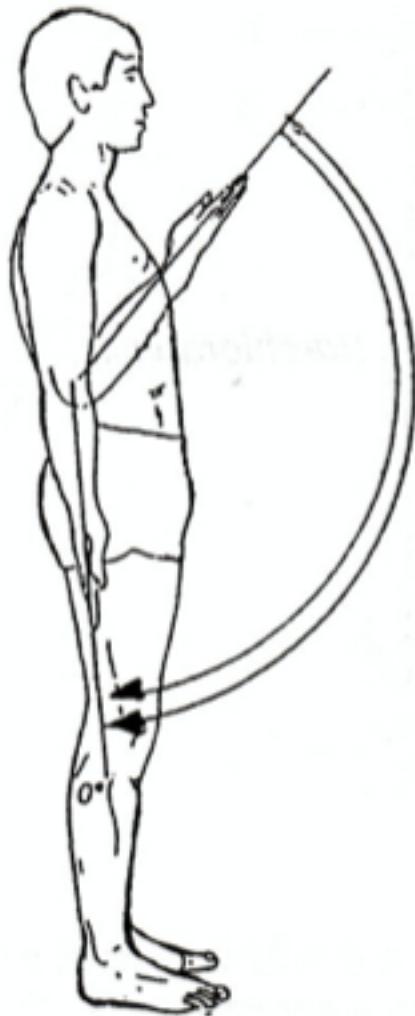
m. brachioradialis

- **Začátek:**
- *crista supracondylaris lateralis humeri*
- *septum intermusculare brachii laterale*
- **Úpon:** baze processus styloideus radii, ligamentum collaterale carpi radiale
- **Inervace:** *nervus radialis (ramus superficialis) C5-6*
- **Funkce:** flexe předloktí ve středním postavení, navrací do středního postavení předloktí ze supinace a pronace





Extenze

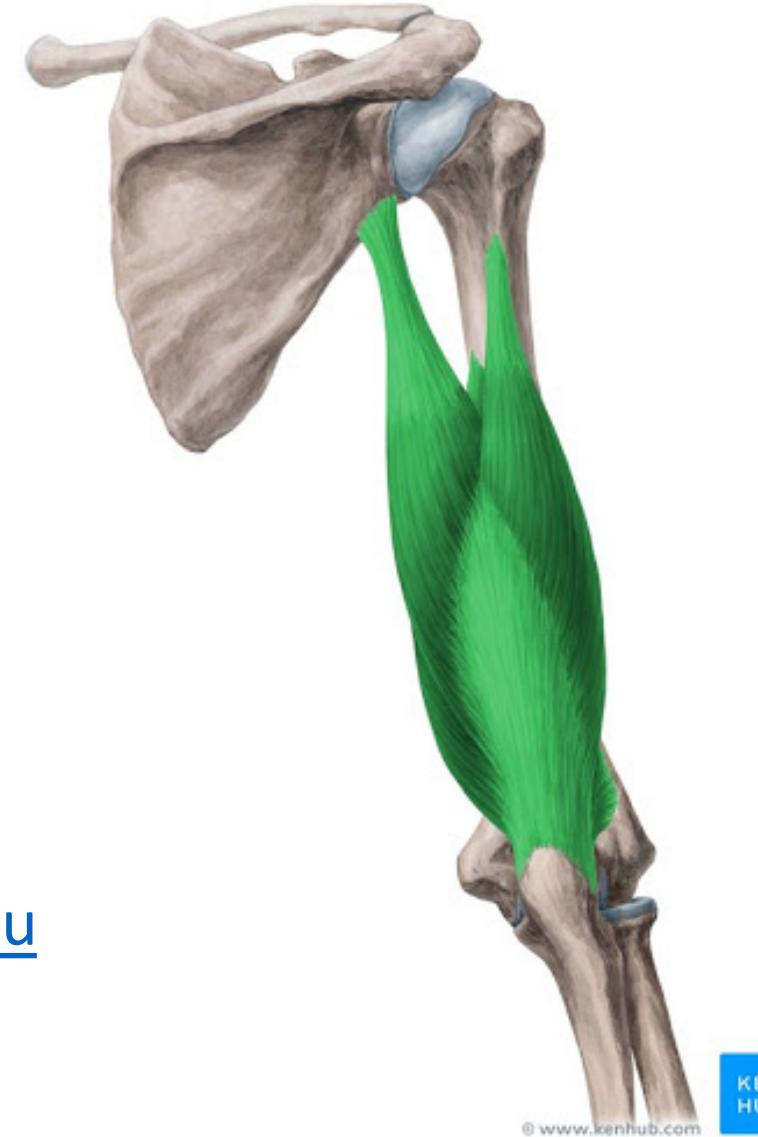


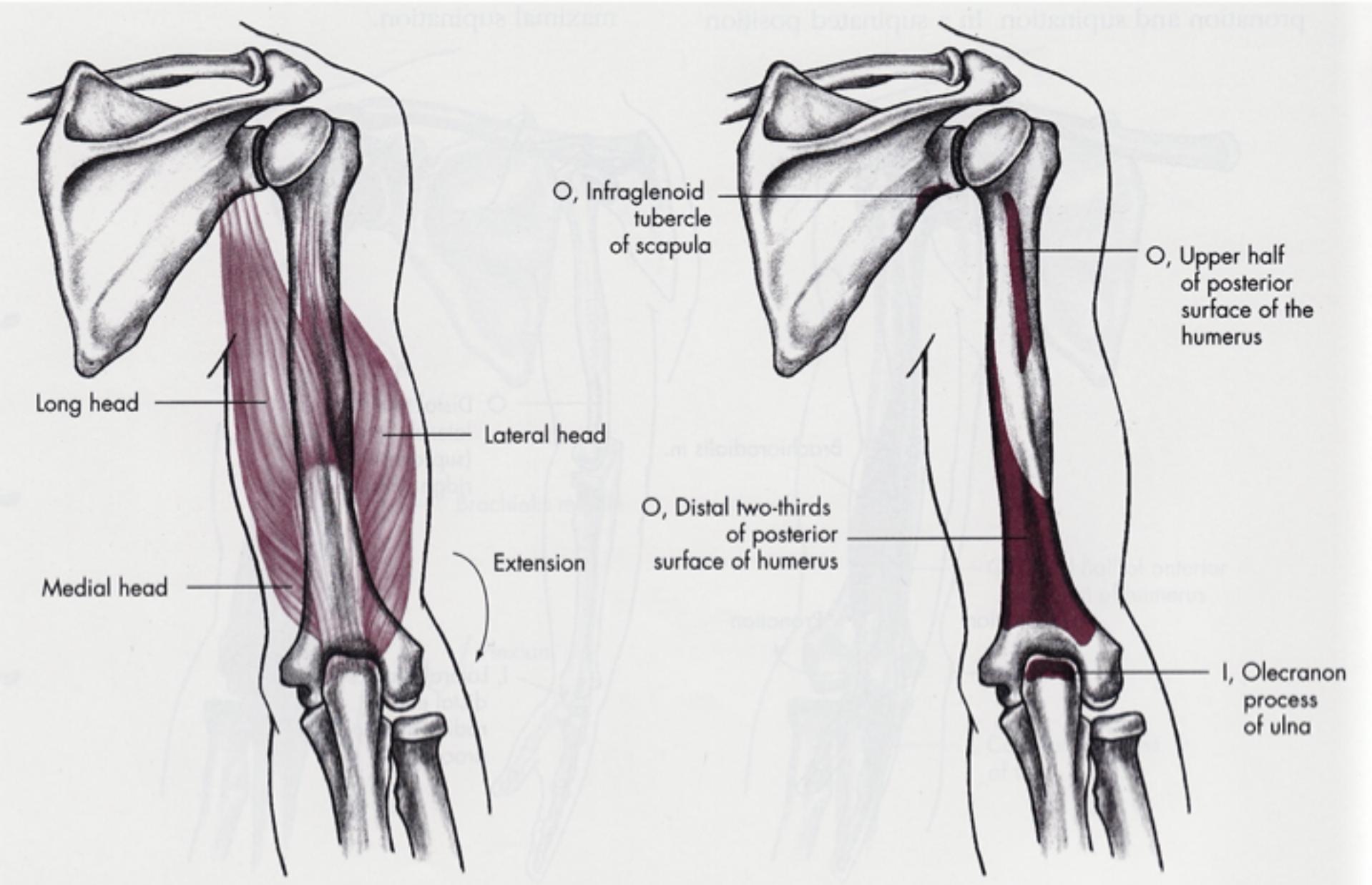
Extenze

- M. triceps brachii
- M. anconeus

m. Triceps brachii

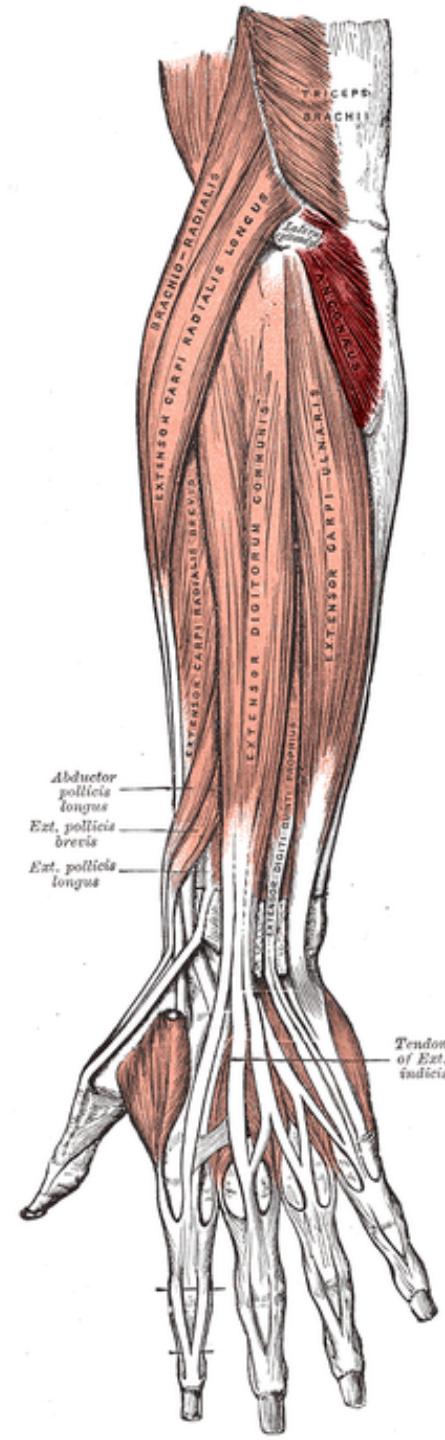
- Začátek:
- *caput longum* – *tuberculum infraglenoidale scapulae*;
- *caput laterale* – zadní plocha *humeru*, proximálně od *sulcus nervi radialis*;
- *caput mediale* – zadní plocha *humeru*, distálně od *sulcus nervi radialis*.
- Úpon: *olecranon ulnae*.
- Inervace: *nervus radialis* (C_6-C_8).
- Funkce: extenze loketního kloubu; *caput longum* pomáhá při dorsální flexi a addukci v ramenním kloubu

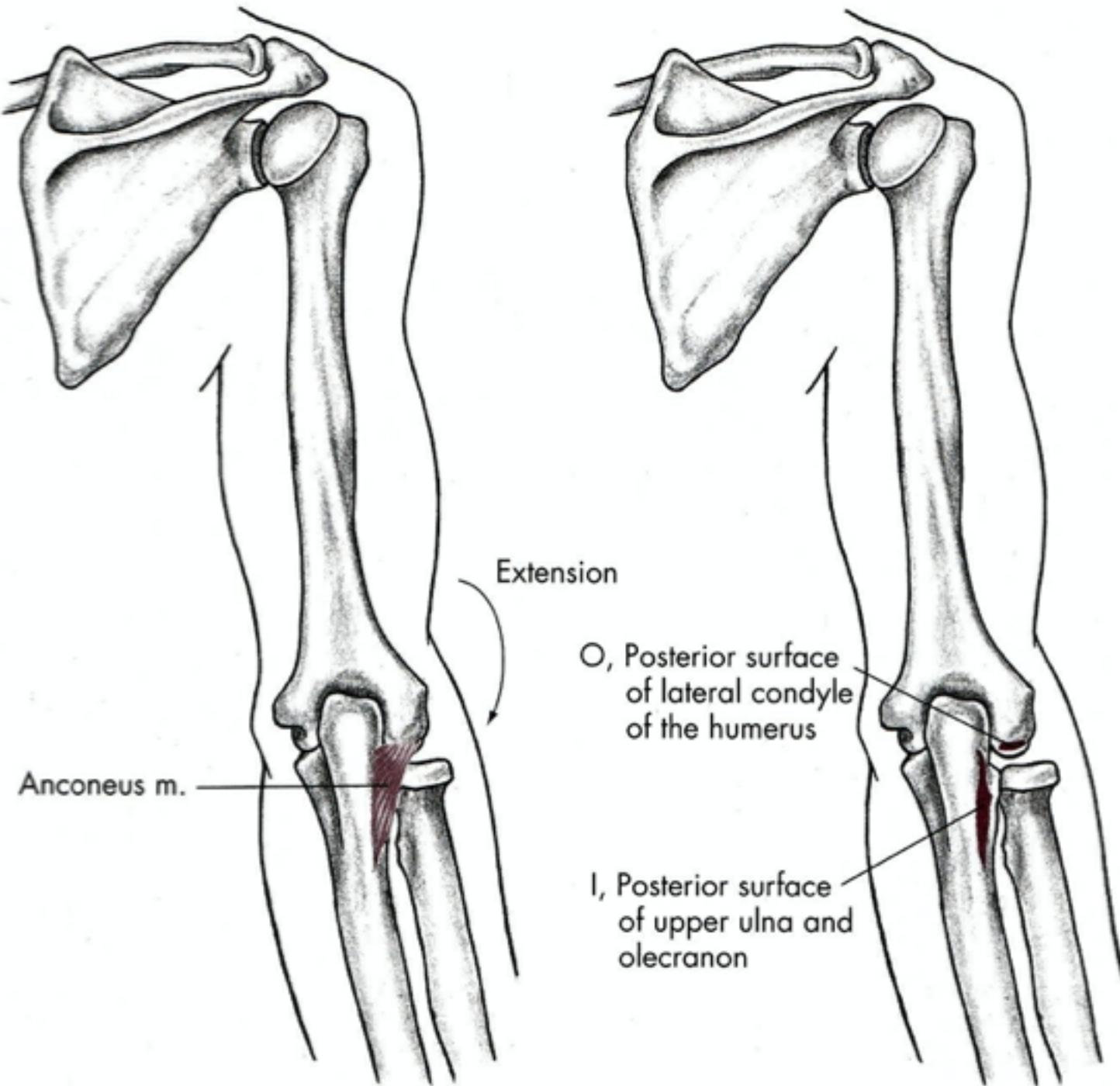




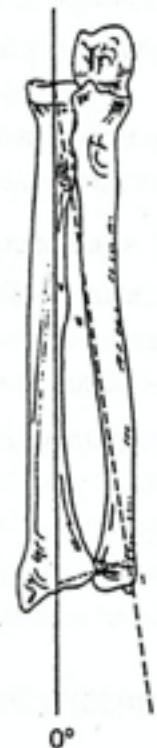
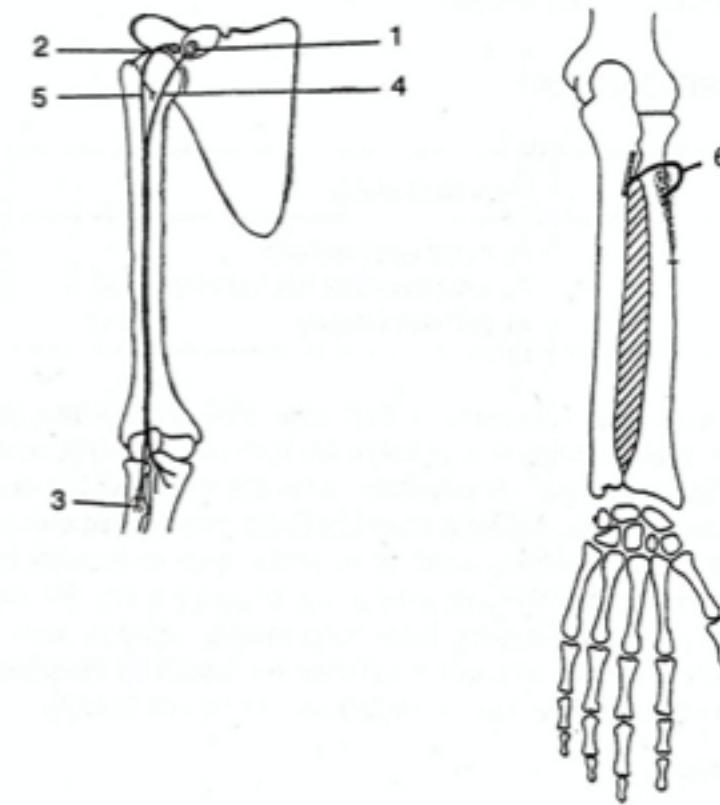
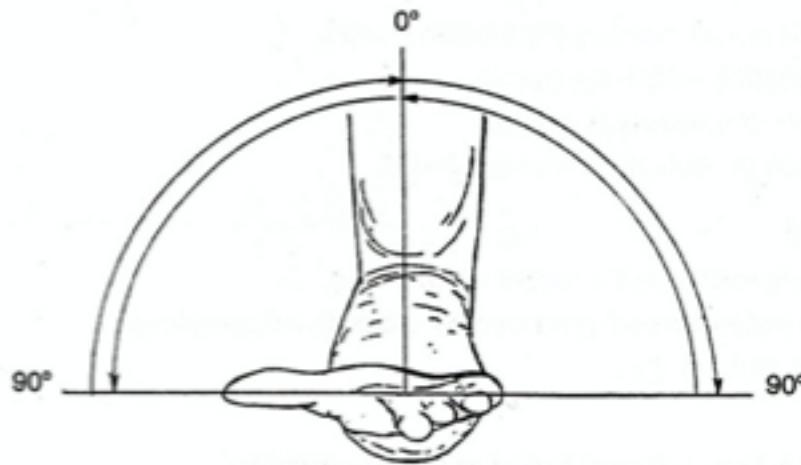
m. Anconeus

- **Začátek:** epicondylus lateralis humeri
- **Úpon:** distálně od olecranon ulnae
- **Inervace:** nervus radialis
- **Funkce:** extenze v předloktí, hluboká vrstva brání uskřinutí kloubního pouzdra při extenzi

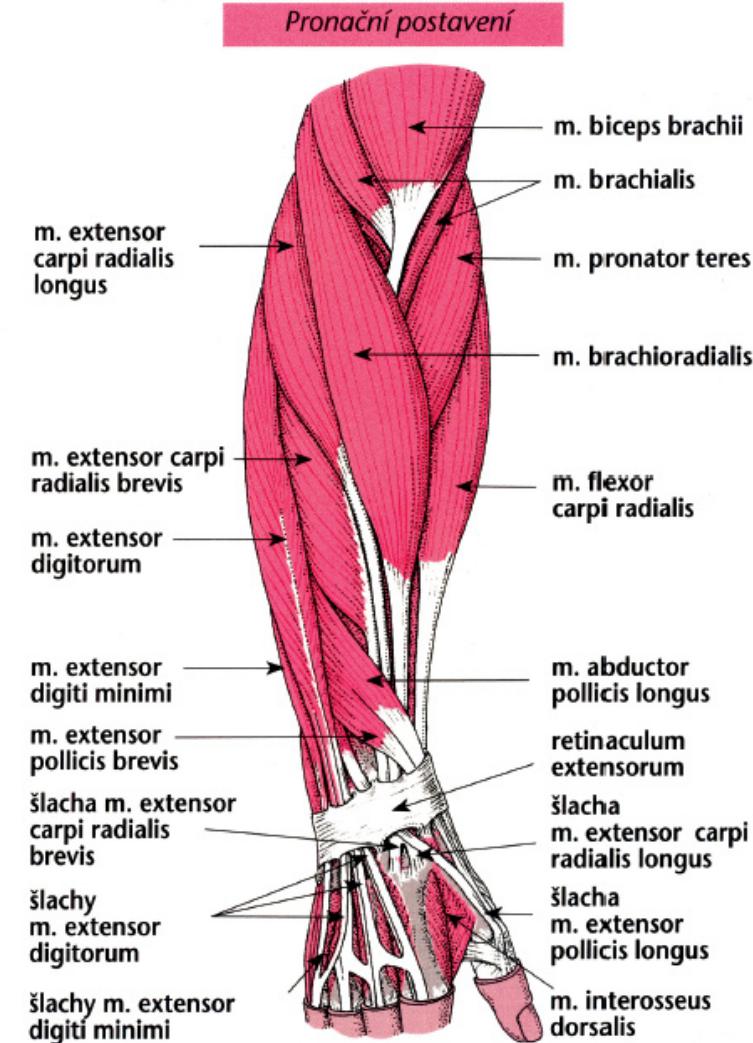
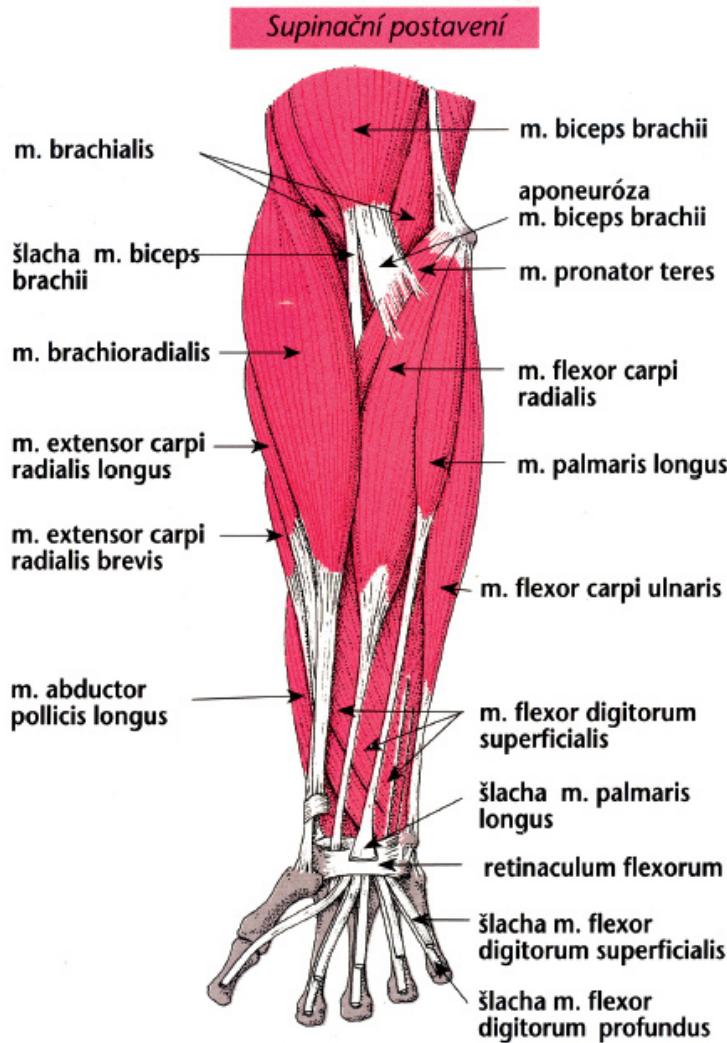




Supinace



Svaly předloktí



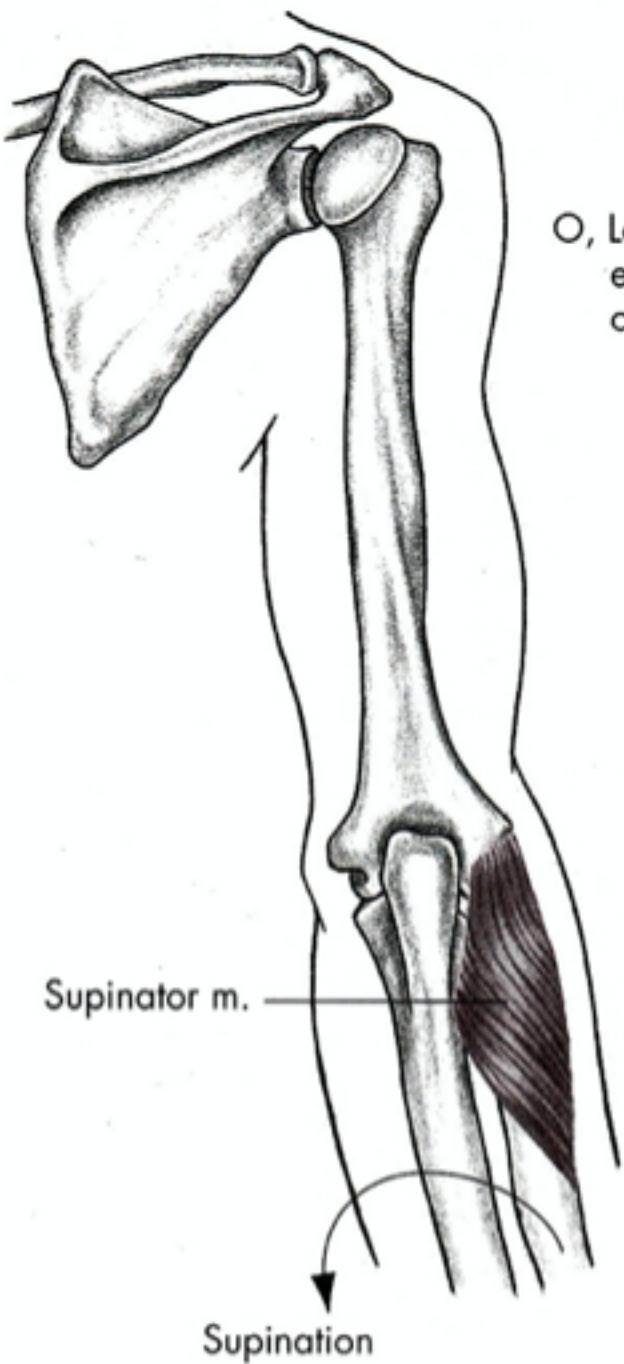
Supinace

- M. biceps brachii
- M. supinator

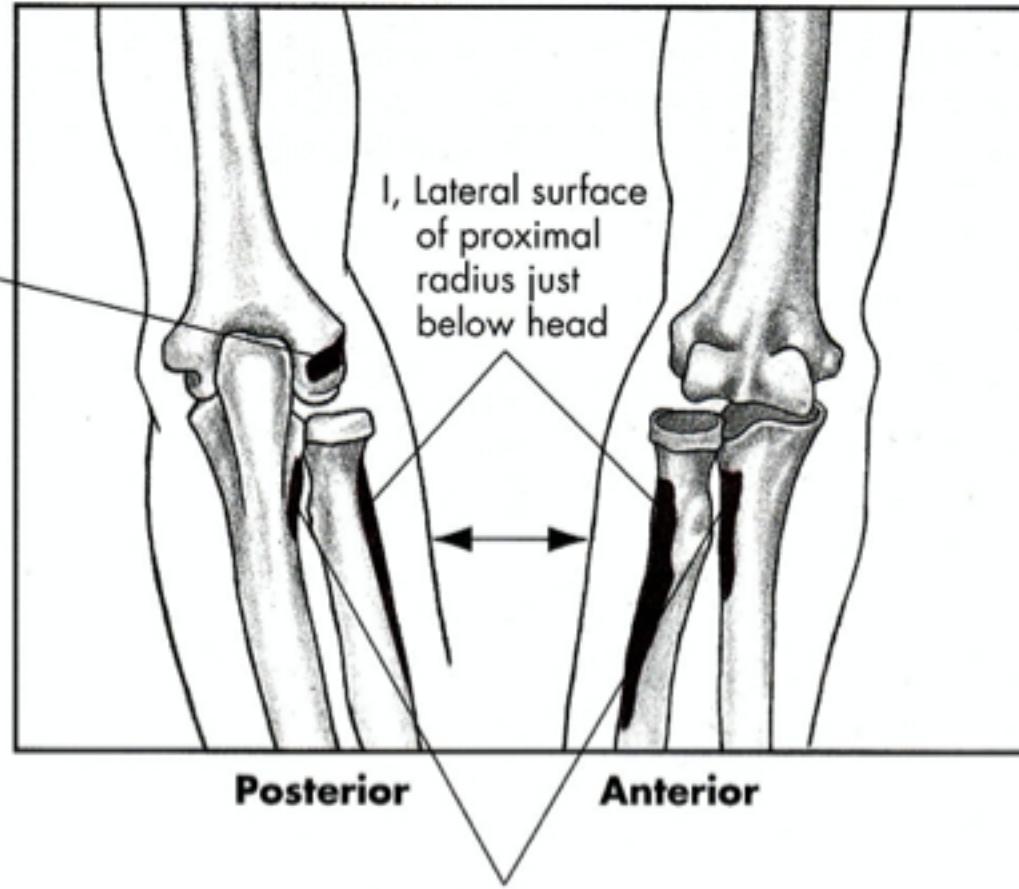
m. supinator

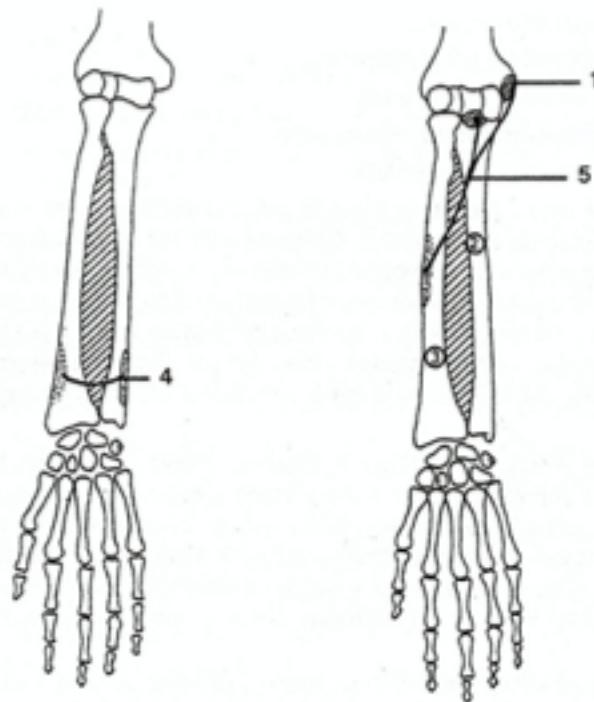
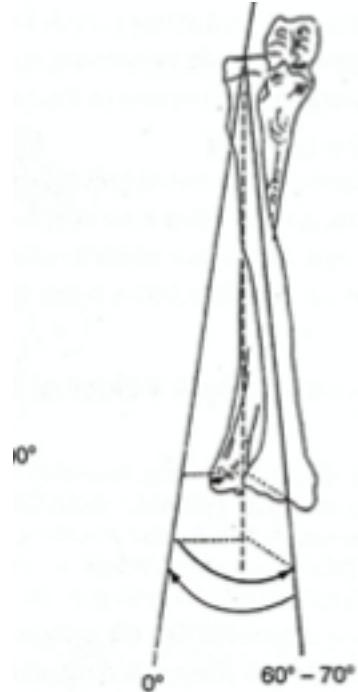
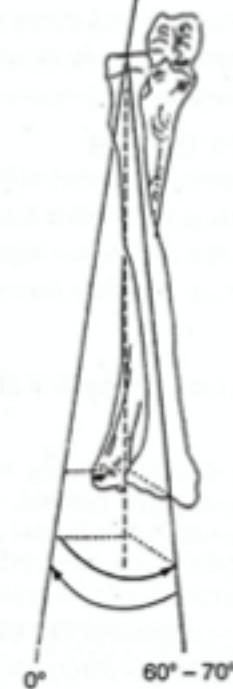
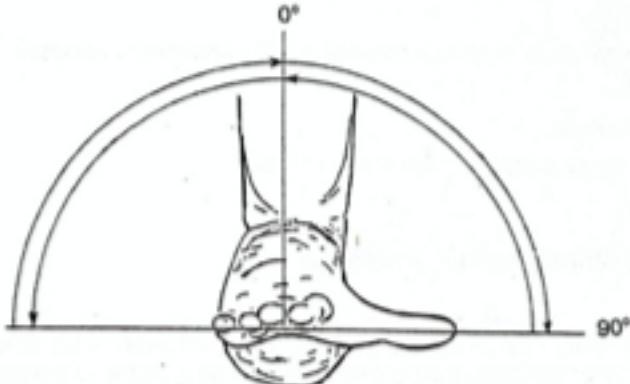
- **Začátek:**
- epicondylus lateralis humeri
- ligamentum collaterale radiale;
- ligamentum anulare radii;
- Crista supinatoria ulnae
- **Úpon:** laterální a palmární plocha radia
- **Inervace:** nervus radialis (ramus profundus) C5-7
- **Funkce:** supinace radia





O, Lateral epicondyle of humerus





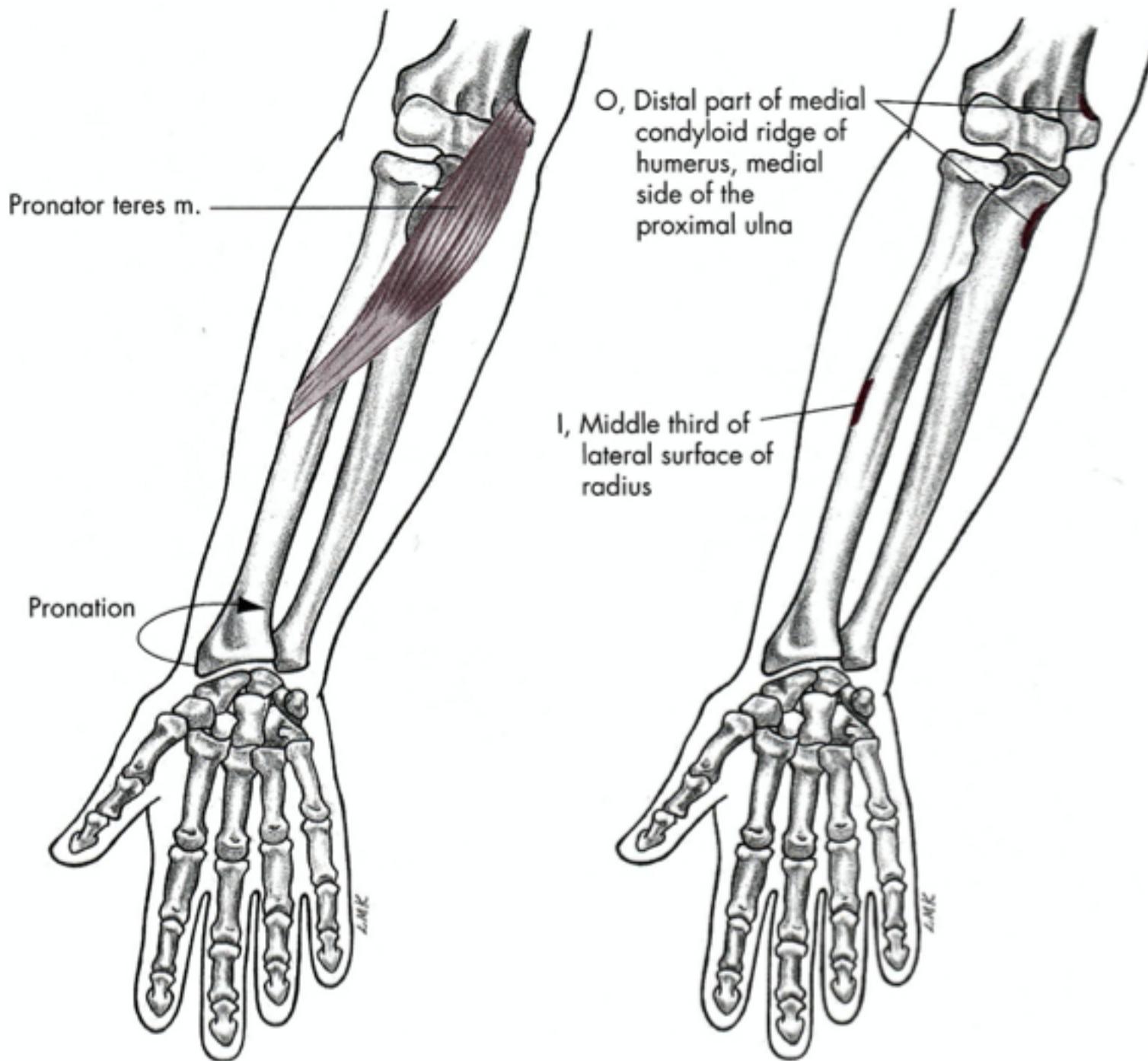
Pronace

- M. pronator teres
- M. pronator quadratus

m. Pronator teres

- **Začátek:** **caput humerale:** crista supraepicondylaris medialis;
- **caput ulnare:** processus coronoideus ulnae
- **Úpon:** střed laterálního okraje radia
- **Inervace:** nervus medianus (C7-Th1)
- **Funkce:** pronace předloktí, pomocná flexe LK

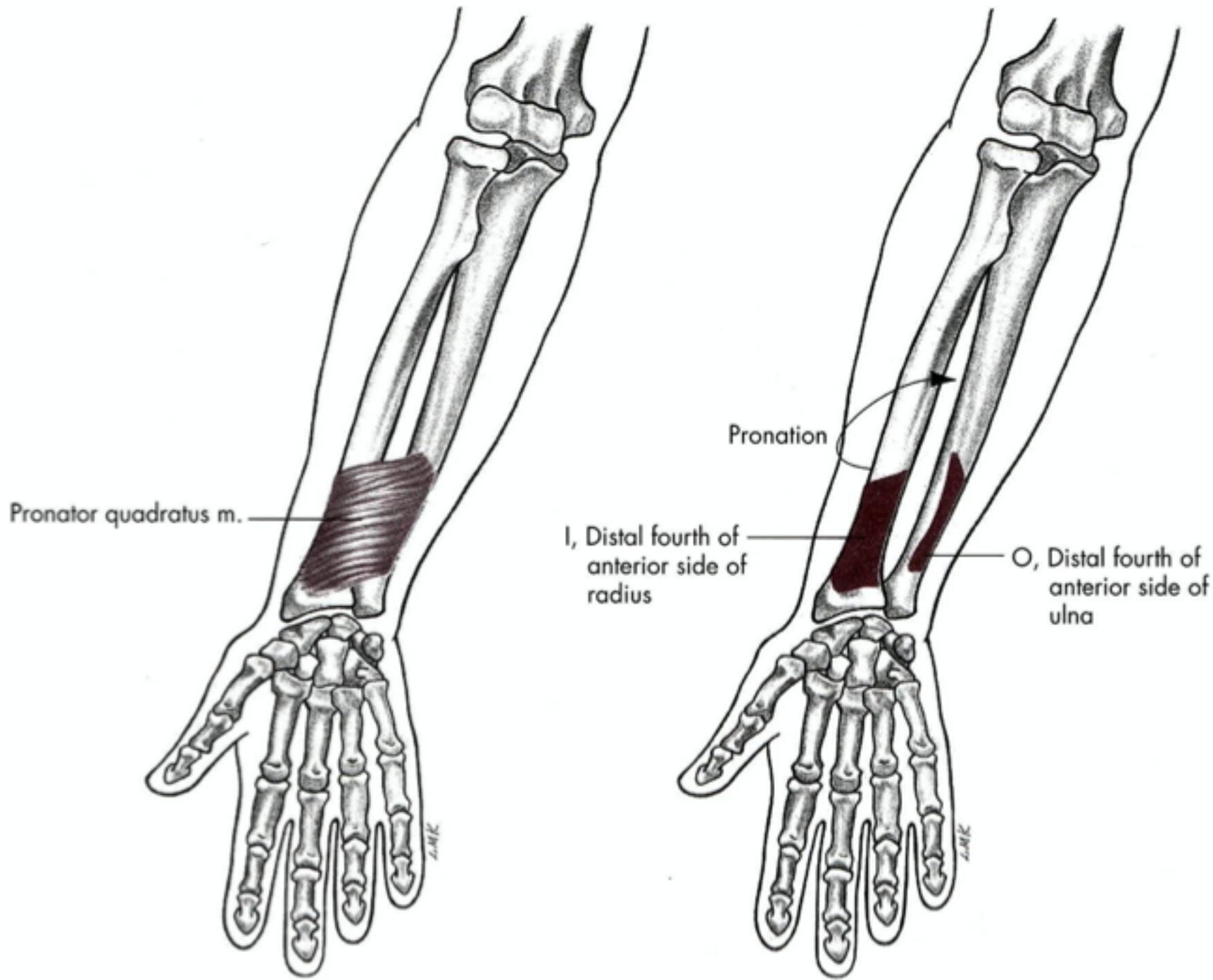




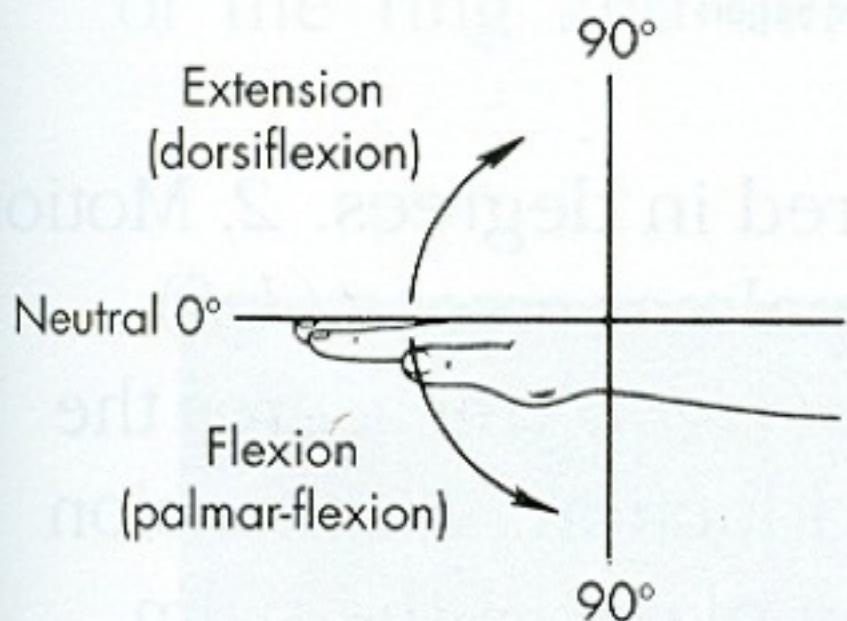
m. Pronator quadratus

- **Začátek:** margo anterior a přední strana distální čtvrtiny ulny
- **Úpon:** palmární strana radia (rozsah stejný jako začátek svalu, jen o něco distálněji)
- **Inervace:** nervus medianus (C_7 a Th_1)
- **Funkce:** pronace předloktí

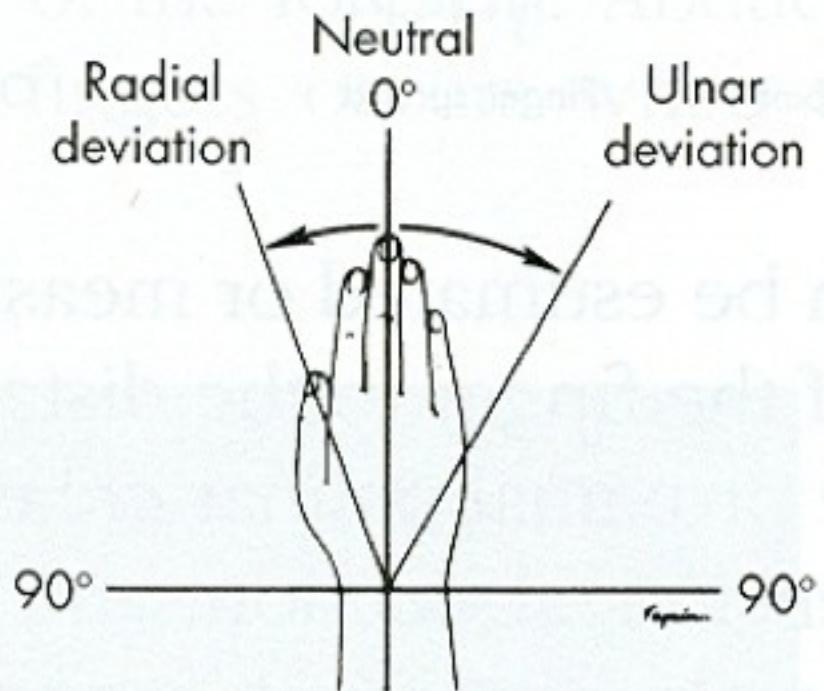




Pohyby zápěstí

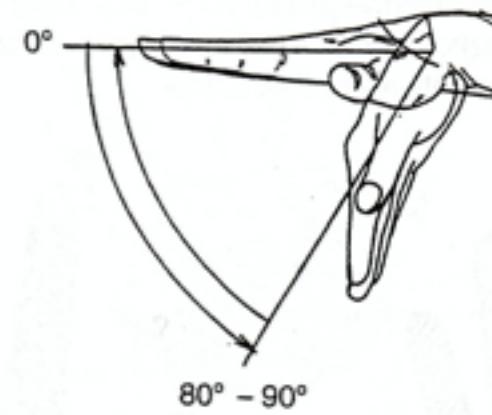
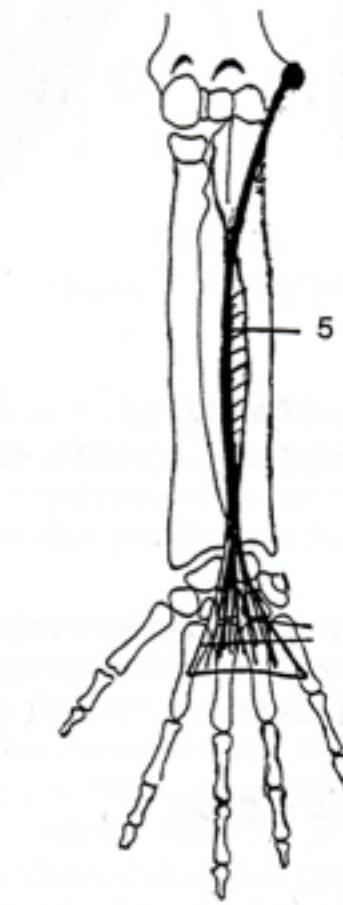
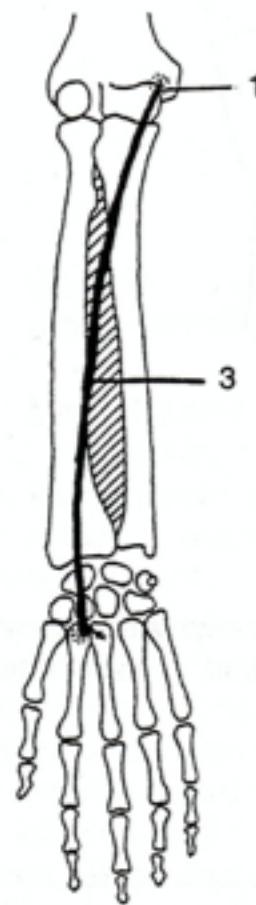


A



B

Palmární flexe

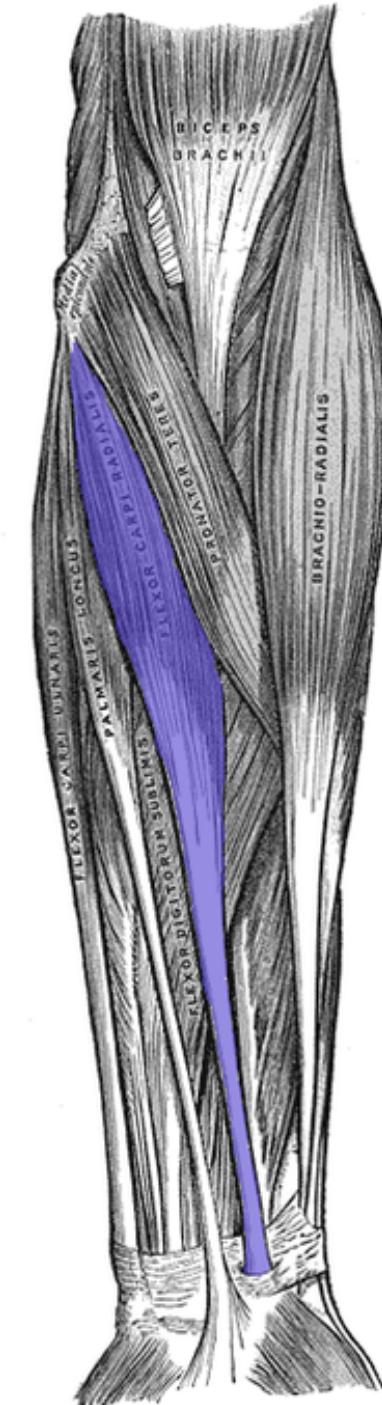


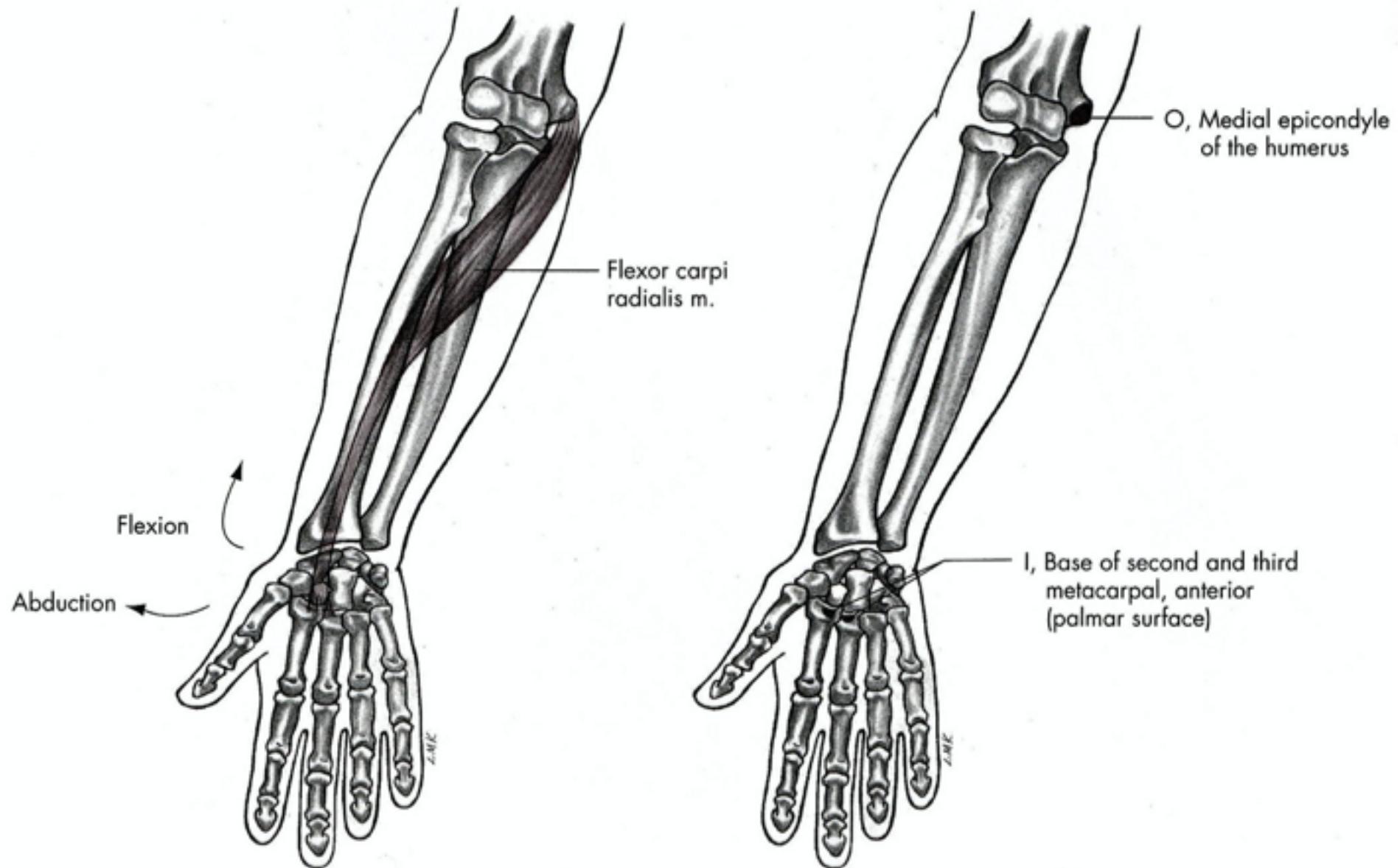
Palmární flexe

- M. flexor carpi radialis
- M. flexor carpi ulnaris
- M. palmaris longus

m. Flexor carpi radialis

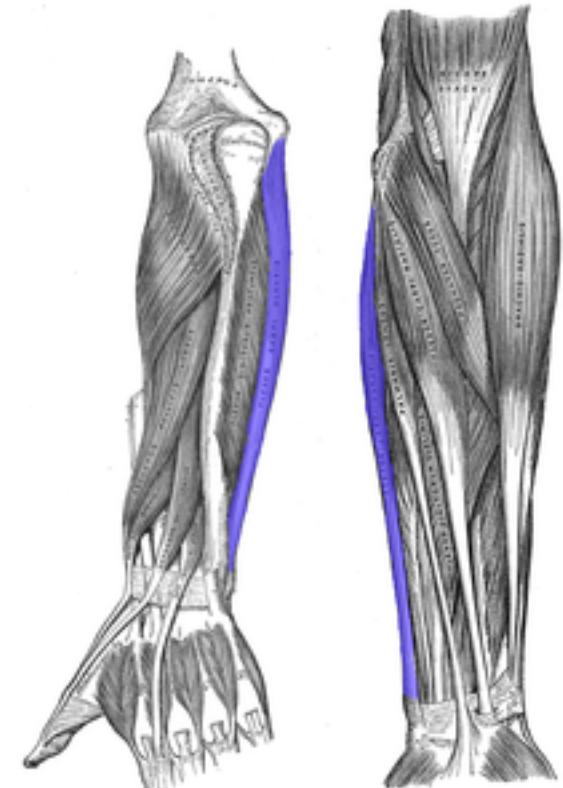
- Začátek: mediální epikondyl humeru
- Úpon: baze 2. a 3. metakarpu
- Inervace: nervus medianus
- Funkce: flexe zápěstí, radiální dukce, pomocná flexe loketního kloubu, pronace

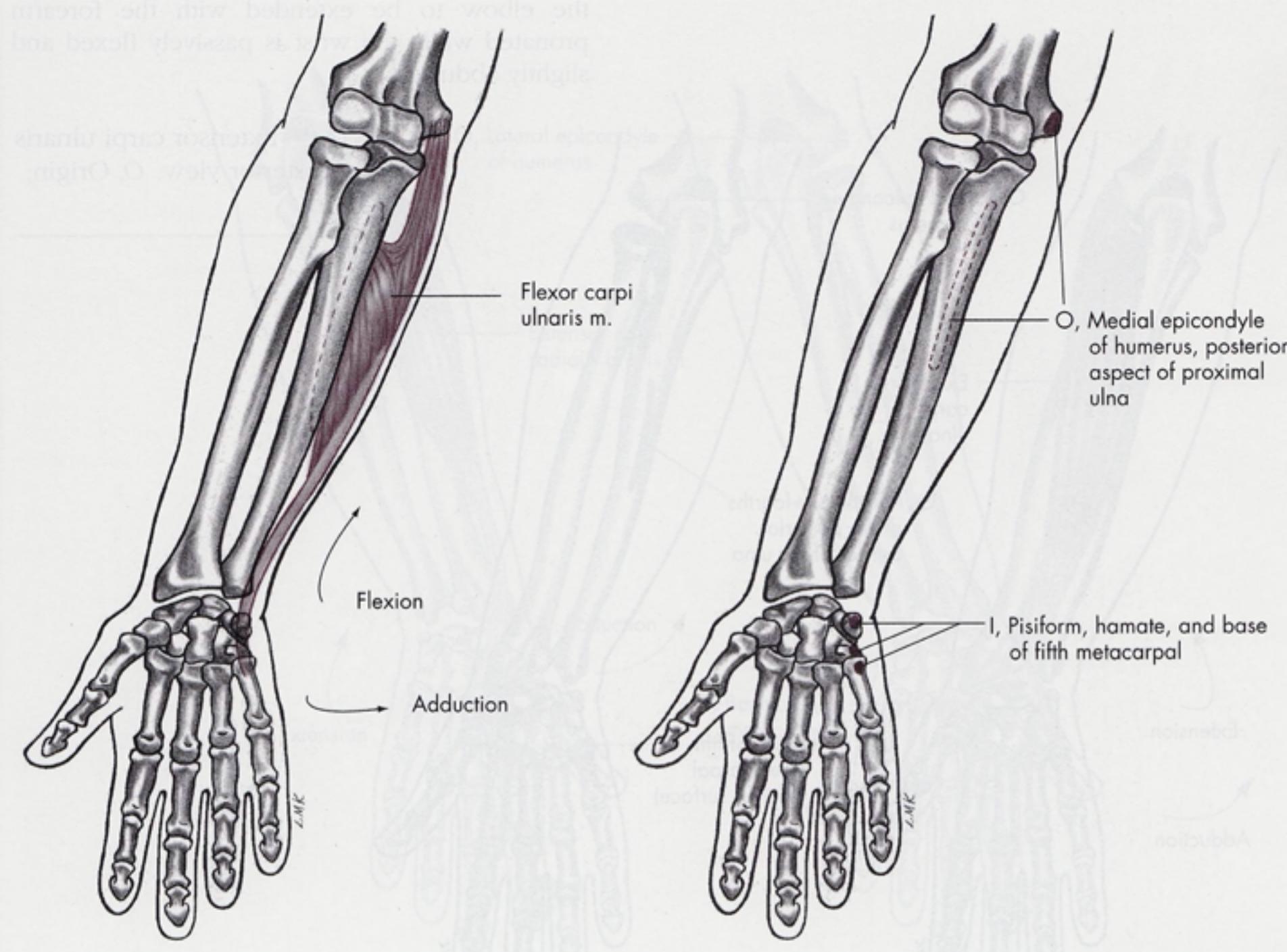




m. Flerox carpi ulnaris

- Začátek: mediální epikondyl humeru a olecranon ulnae
- Úpon: os pisiforme, os hamatum a pátý metakarp
- Inervace: nervus ulnaris
- Funkce: flexe zápěstí, ulnární dukce





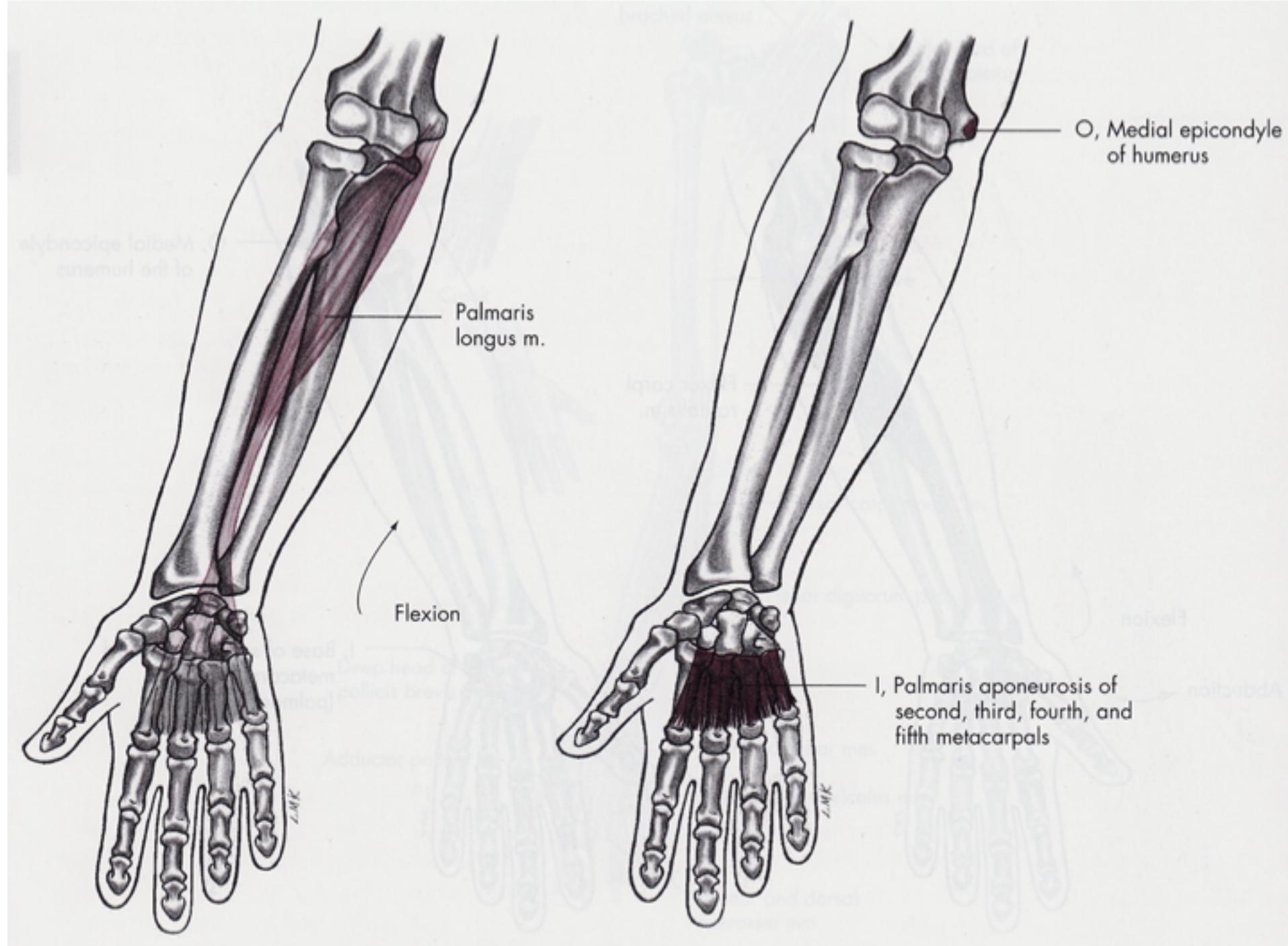
m. Palmaris longus

- **Začátek:** medialní (ulnarní) epikondyl humeru, společná úponová šlach flexorů
- **Úpon:** retinaculum musculorum flexorum, palmární aponeuróza
- **Inervace:** nervus medianus C7-Th1
- **Funkce:** miska z dlaně, palmární flexe zápěstí

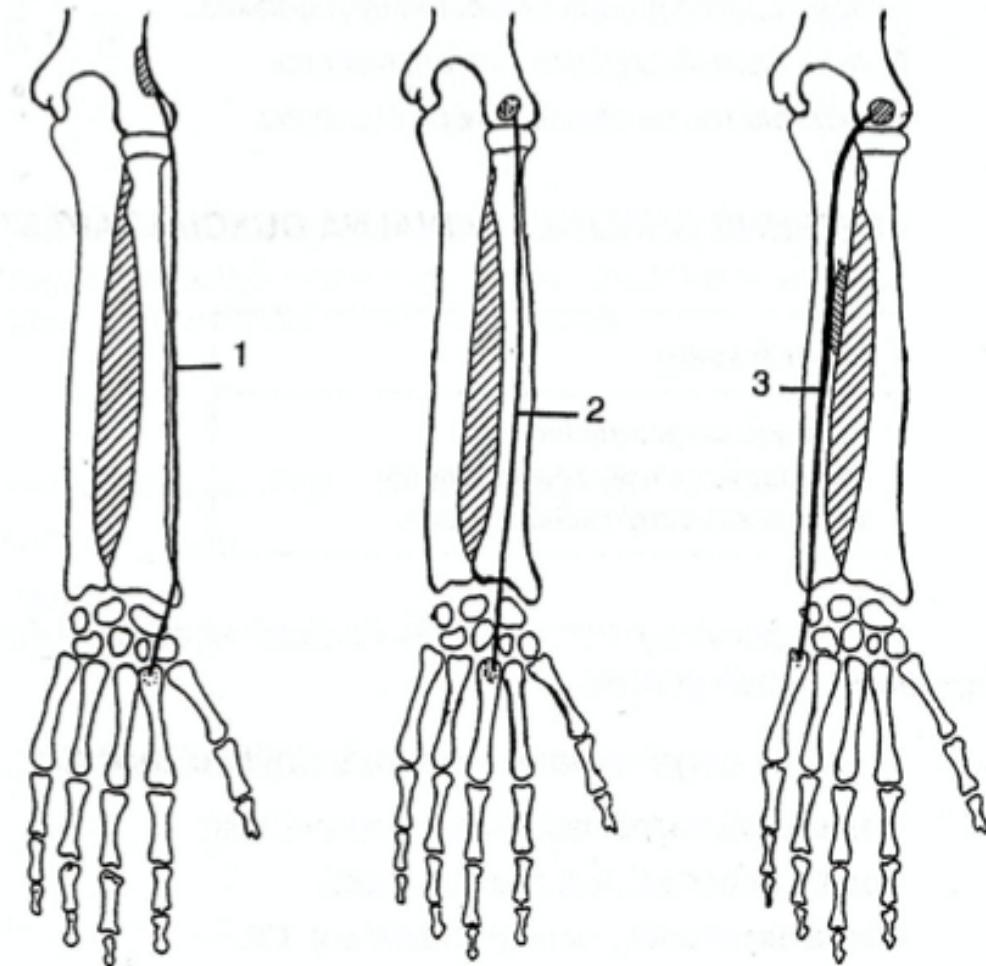
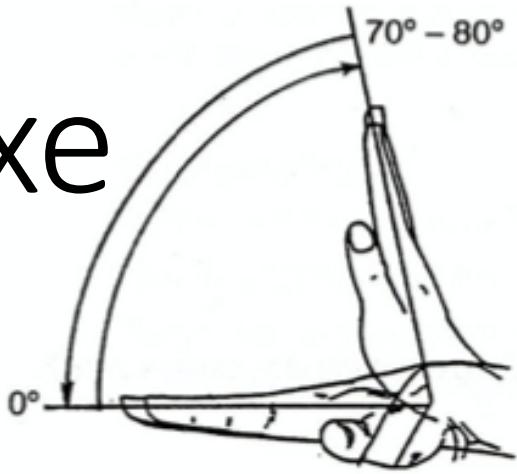


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Dorzální flexe



Dorzální flexe

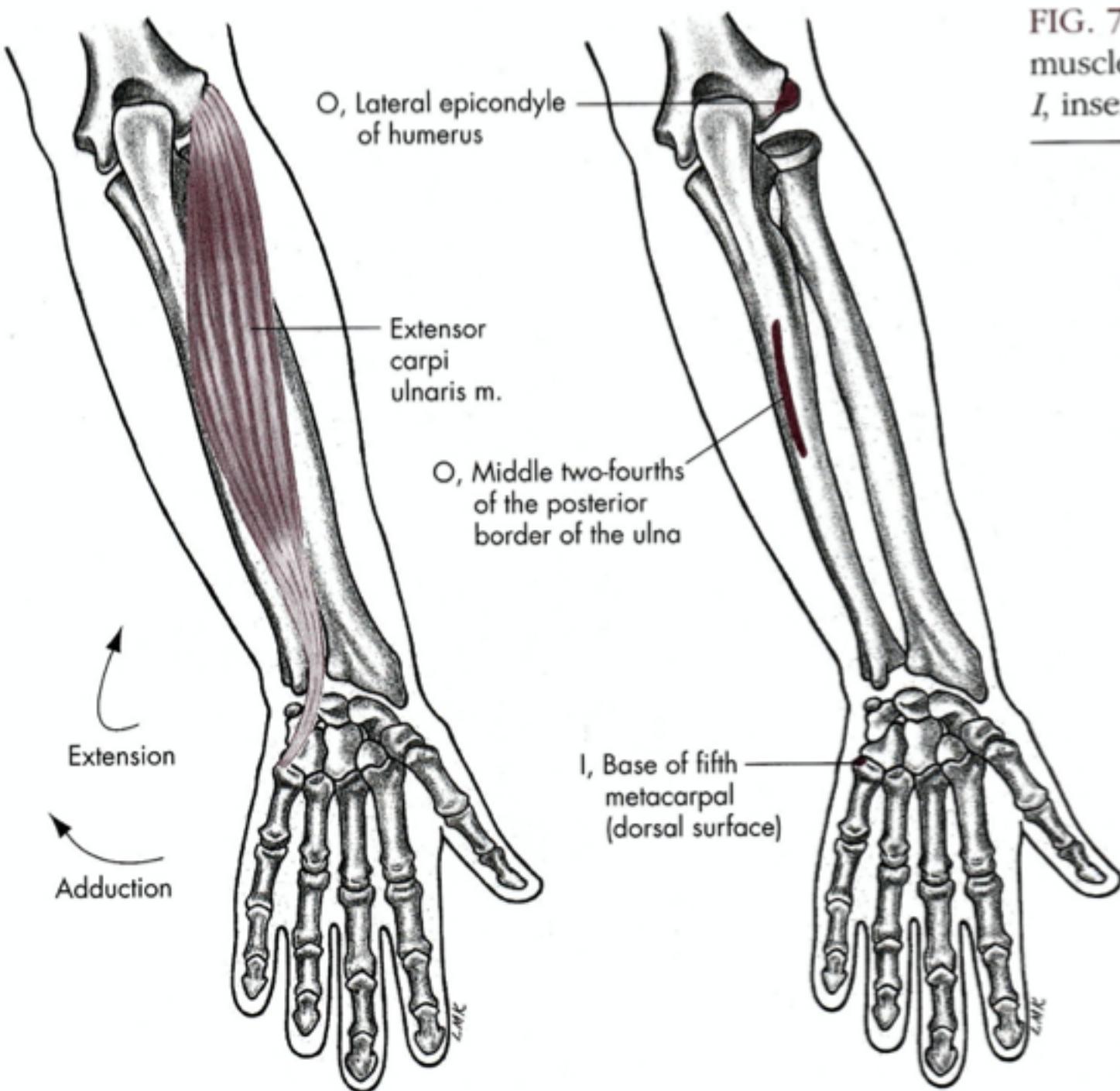
- M. extensor carpi radialis longus et brevis
- M. extensor carpi ulnaris

m. Extensor carpi ulnaris

- **Začátek:** epicondylus lateralis humeri
- **Úpon:** dorzolaterální hrana baze 5. metakarpu
- **Inervace:** nervus radialis (ramus profundus) C5-8
- **Funkce:**
 - extense zápěstí;
 - ulnárni dukce zápěstí

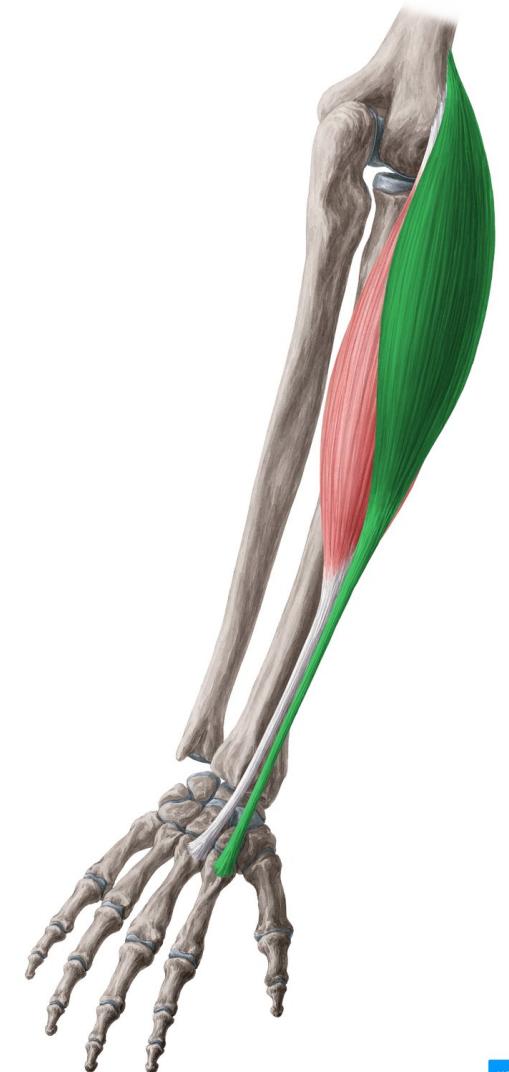


FIG. 7.1
muscle,
I, inserti



m. Extensor carpi radialis longus

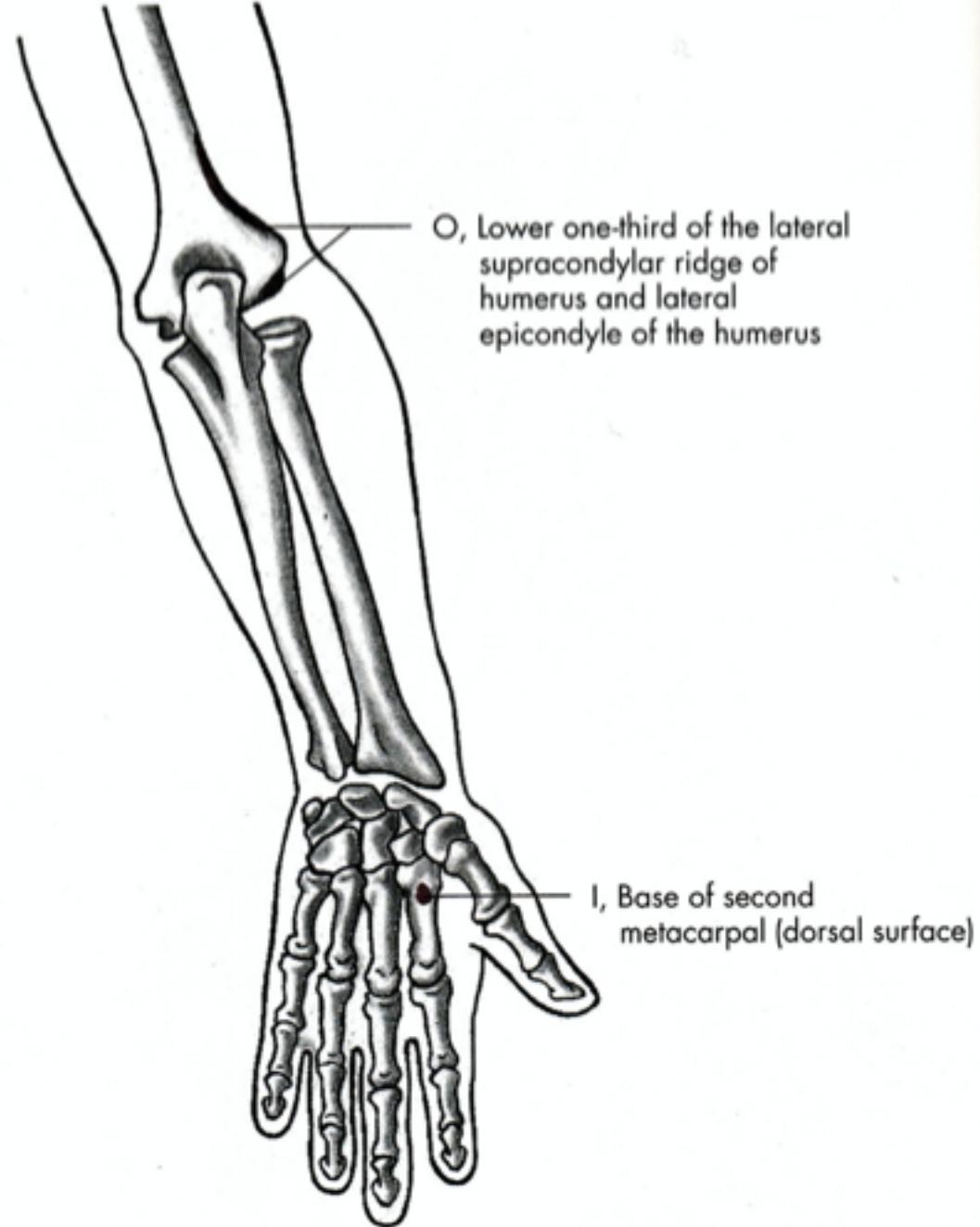
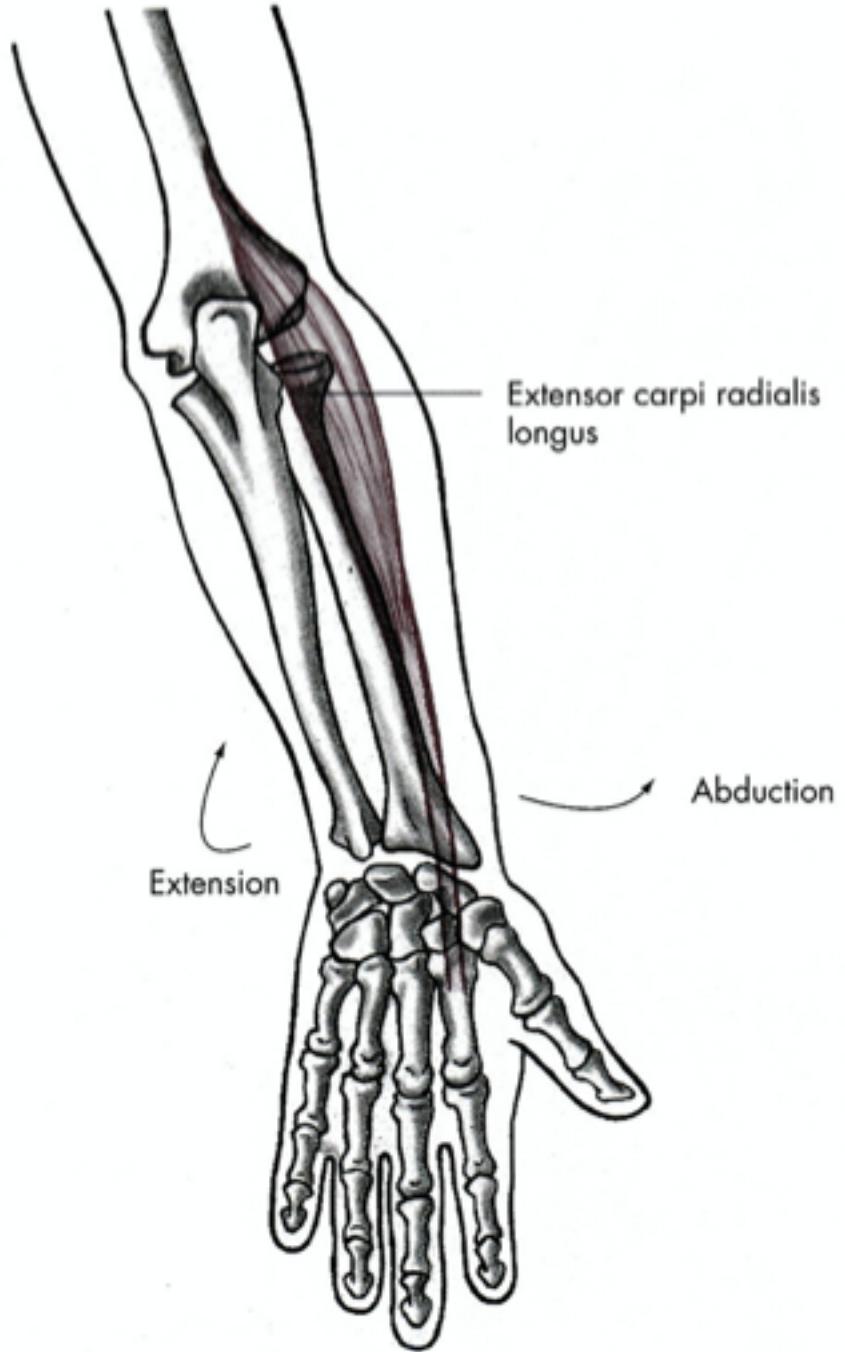
- **Začátek:** distální 1/3 *crista supracondylaris lateralis humeri*, septum intermuskulare brachii laterale
- **Úpon:** dorzolaterální hrana baze 2. metakarpu
- **Inervace:** *nervus radialis (ramus superficialis)* C5-8
- **Funkce:** extenze a radiální dukce zápěstí, část participace na flexi lokte

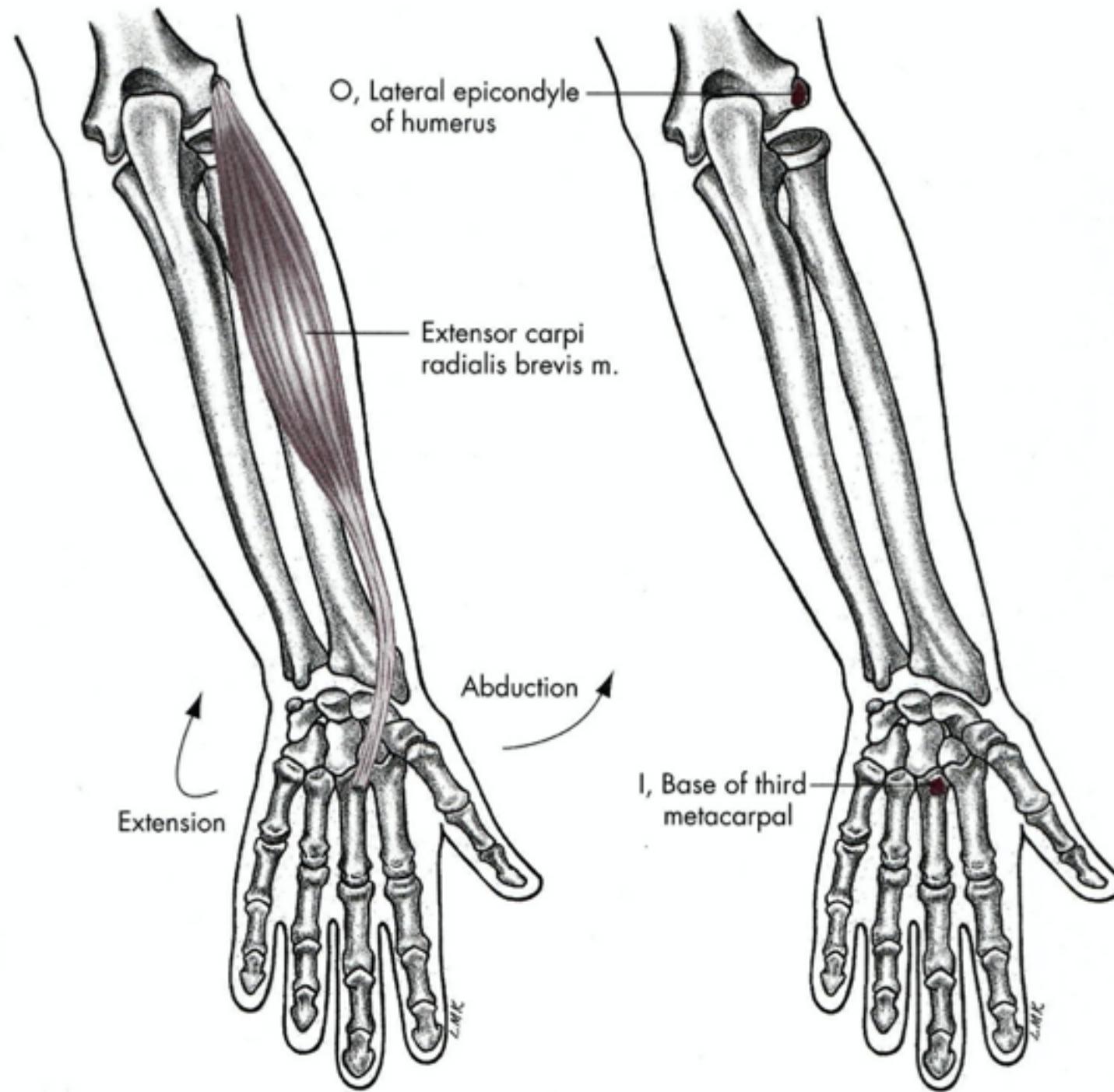


M.extensor carpi radialis brevis

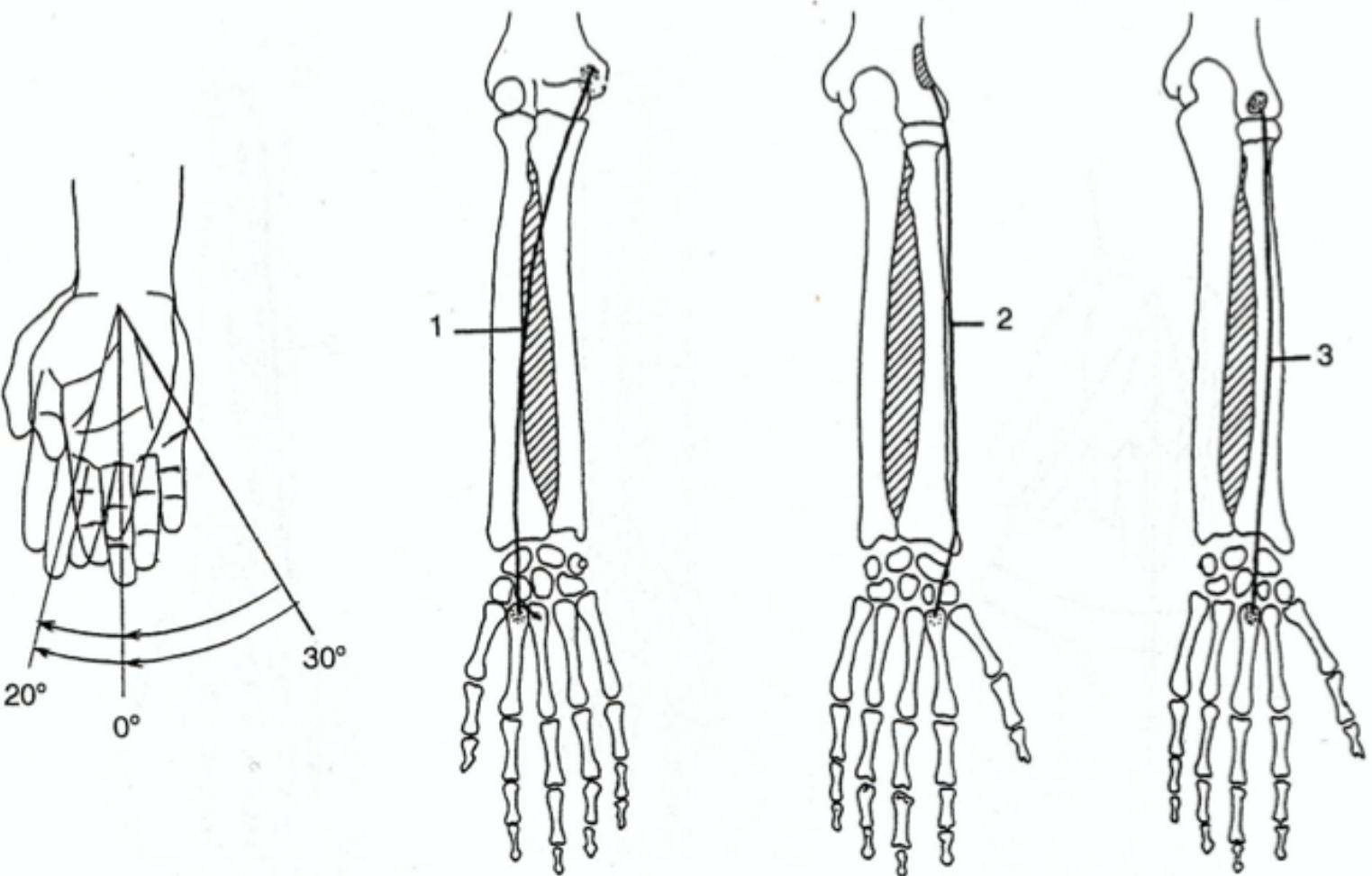
- **Začátek:**
- *epicondylus lateralis humeri, ligamentum collaterale radiale, ligamentum anulare radii*
- **Úpon:** dorzoradiální hrana baze 3. metakarpu
- **Inervace:** *nervus radialis (ramus profundus) C6-8*
- **Funkce:** extenze a radiální dukce zápěstí







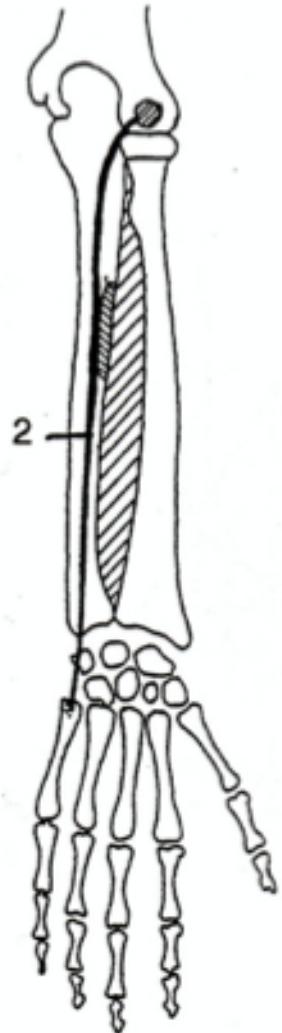
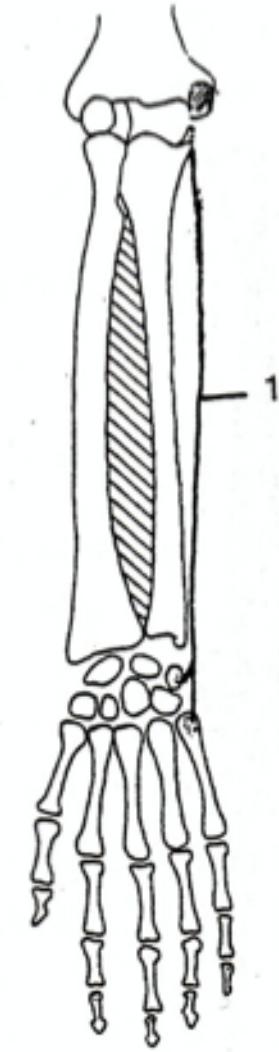
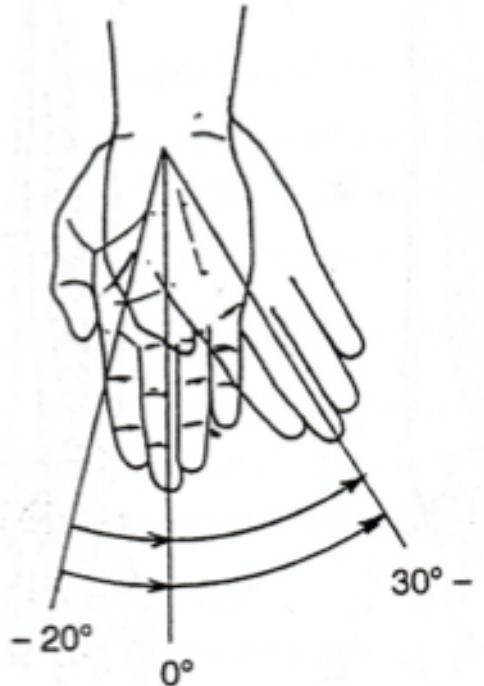
Radiální dukce



Radiální dukce

- M. extensor carpi radialis longus et brevis
- M. flexor carpi radialis

Ulnární dukce

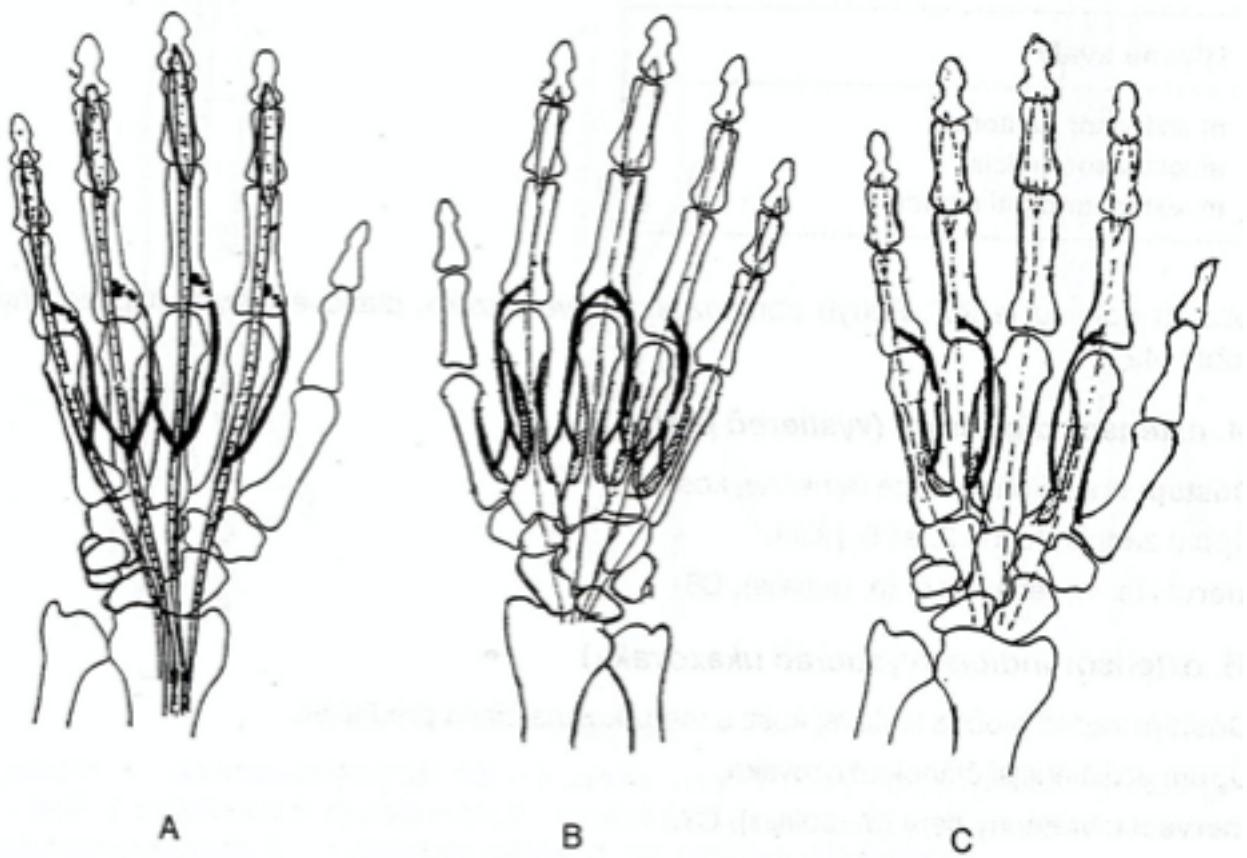
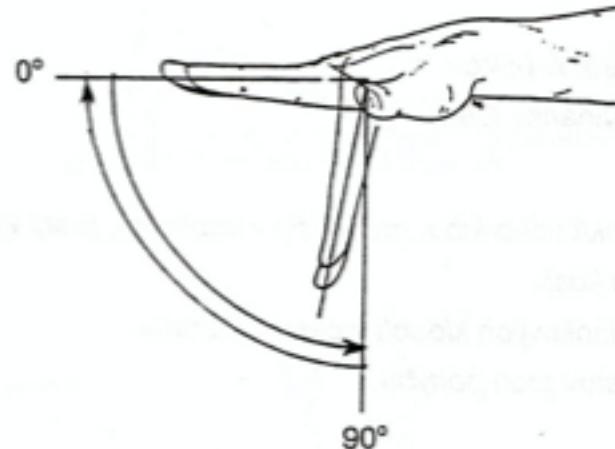


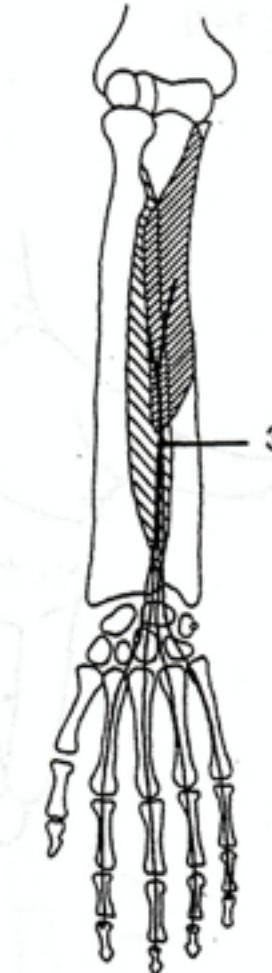
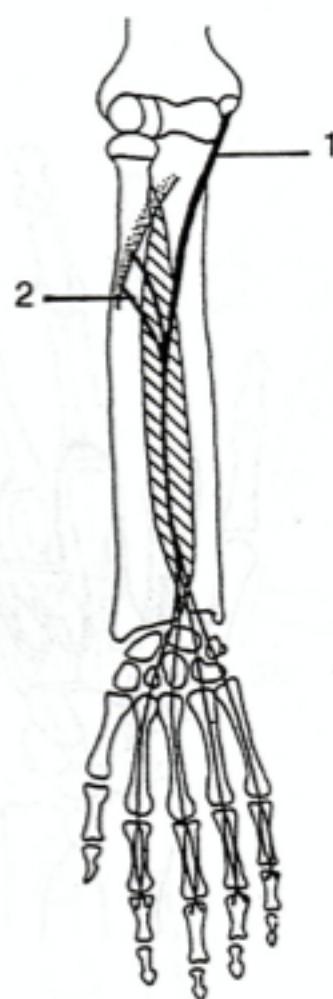
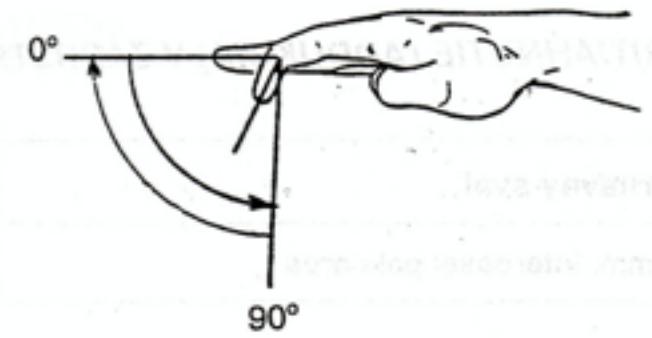
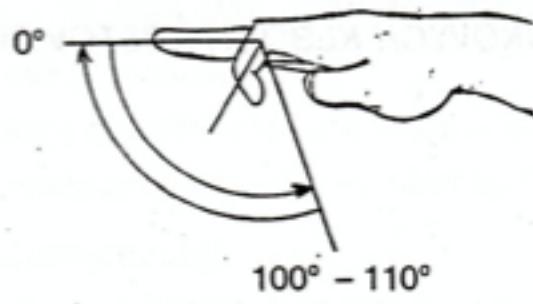
Ulnární dukce

- M. extensor carpi ulnaris
- M. flexor carpi ulnaris

Pohyby prstů

Flexe

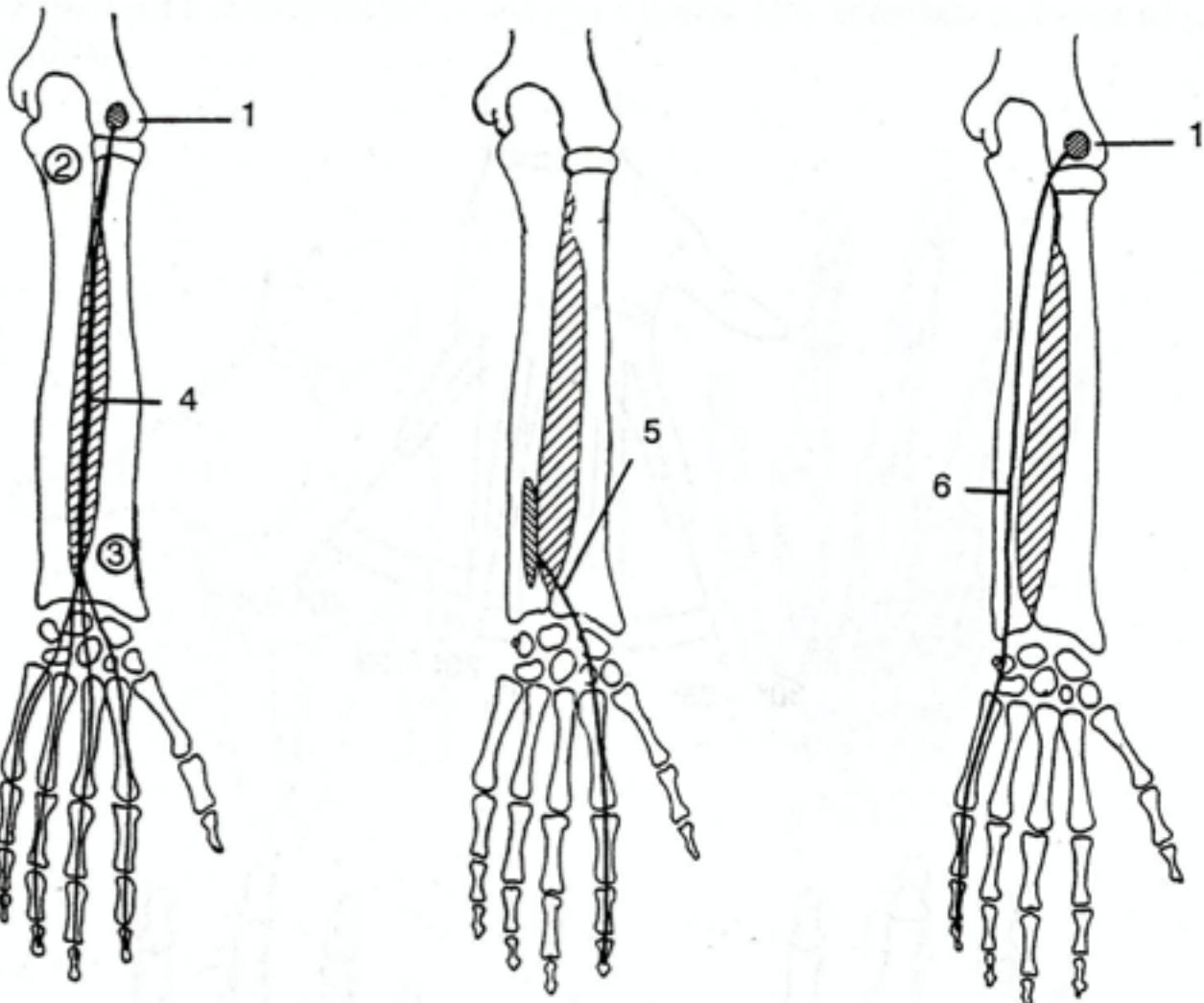
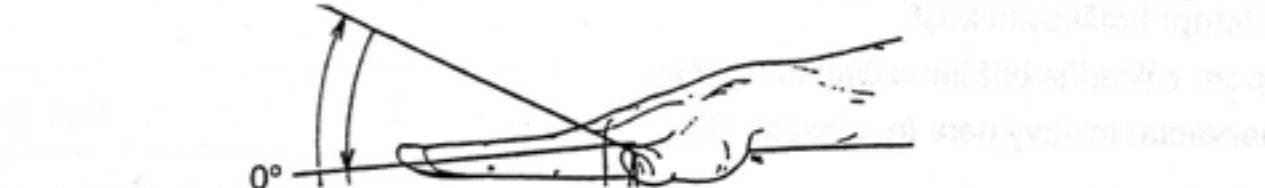


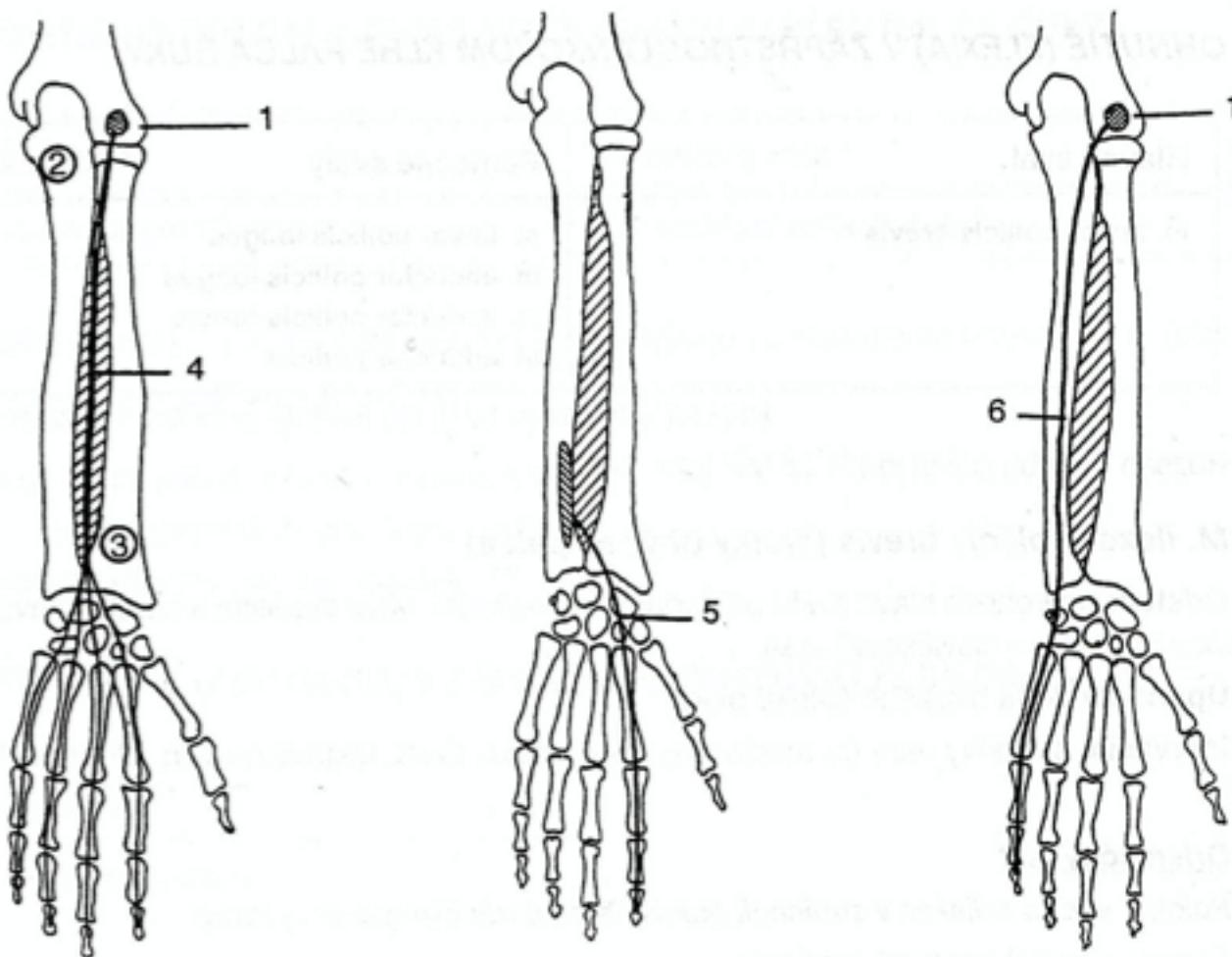
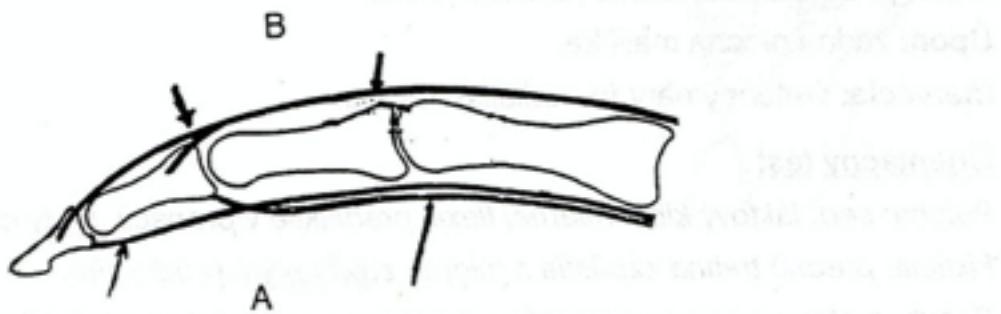


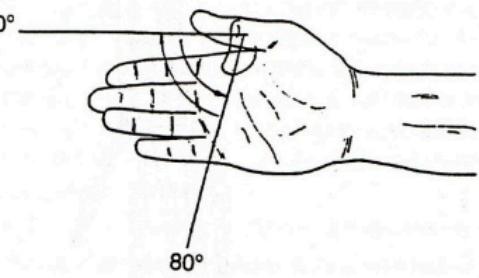
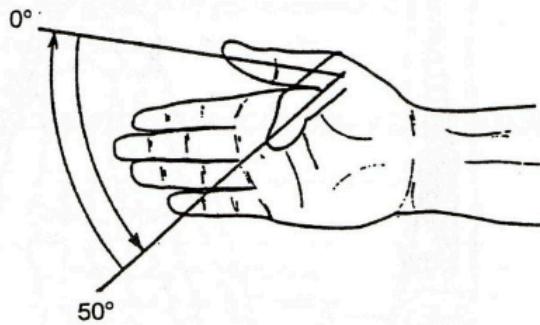
Extenze

20° - 30°

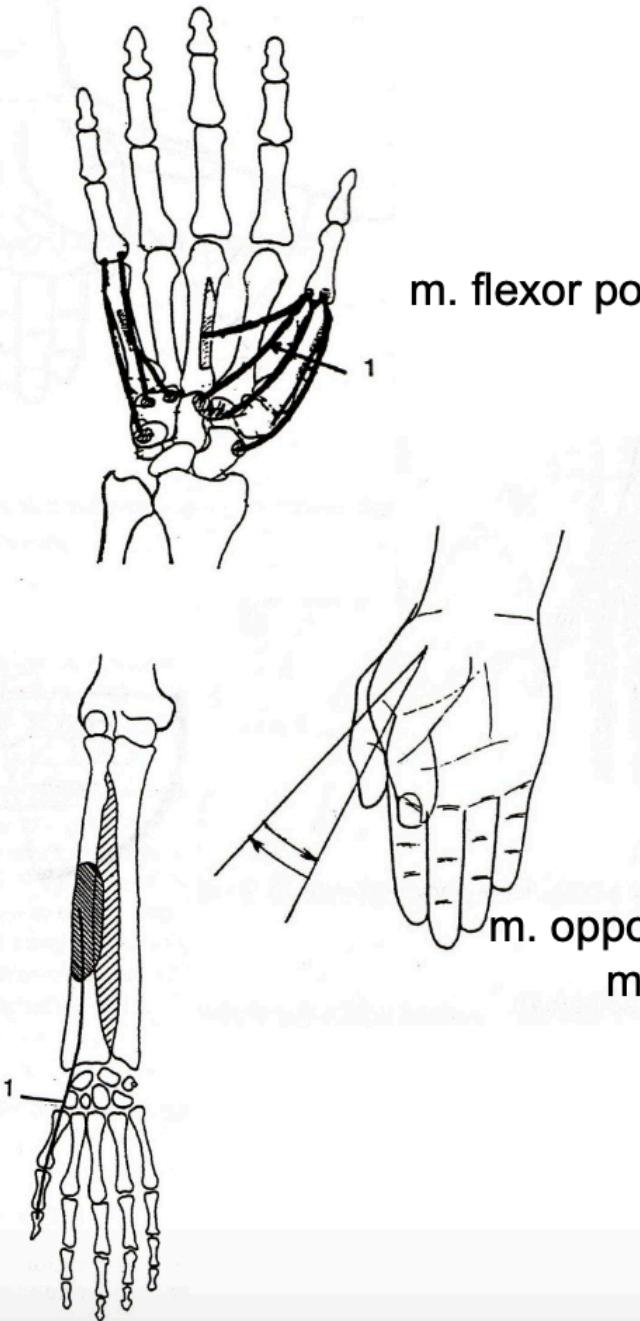
0°



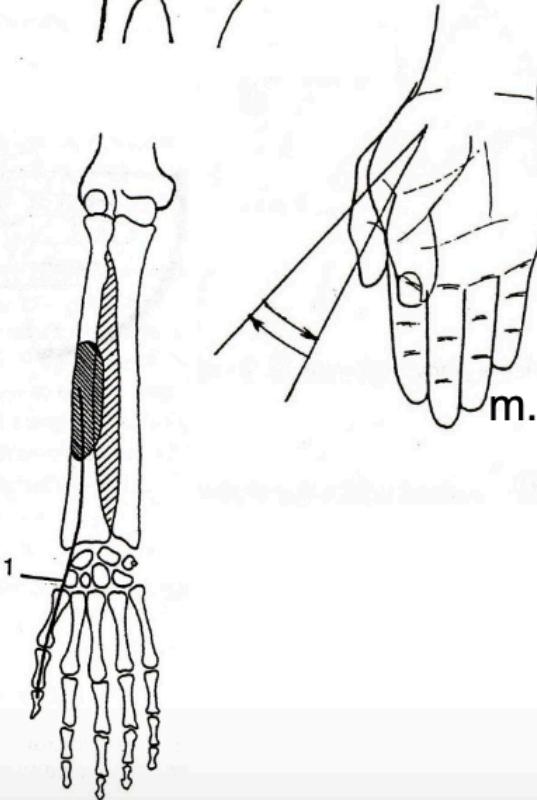




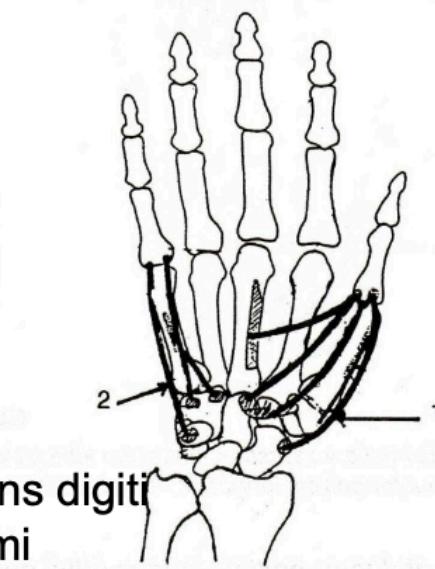
m. flexor pollicis longus



m. flexor pollicis brevis



m. opponens digiti minimi



m. opponens pollicis

Děkuji za pozornost