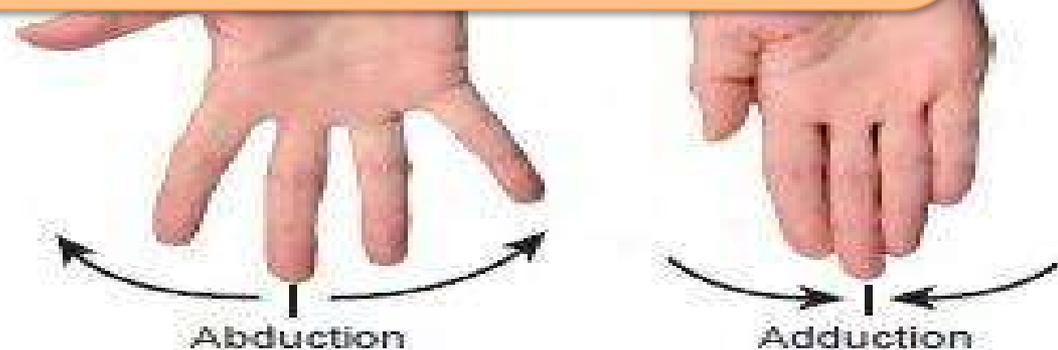


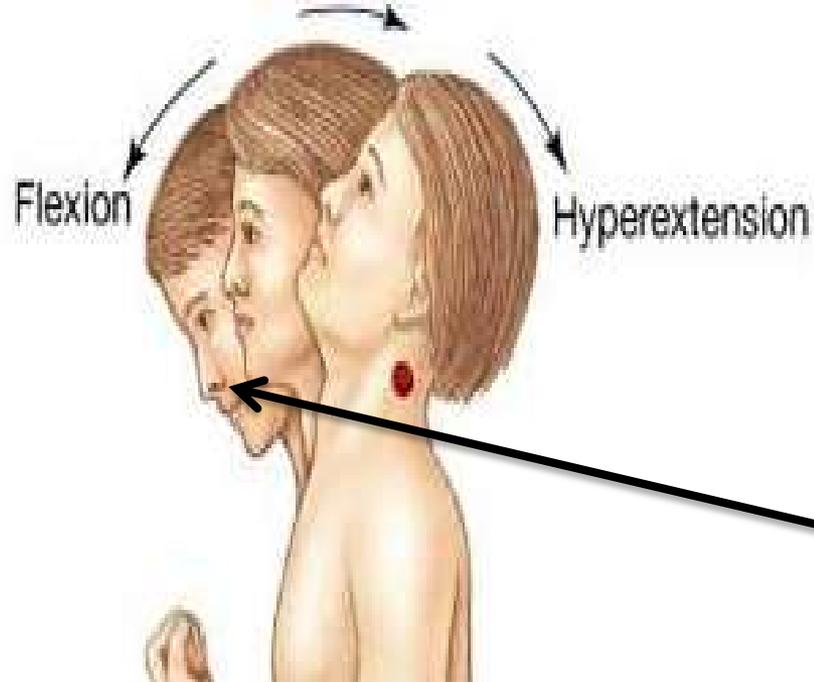
حركة المفاصل

Les mouvements articulaires



(c) Hip joint

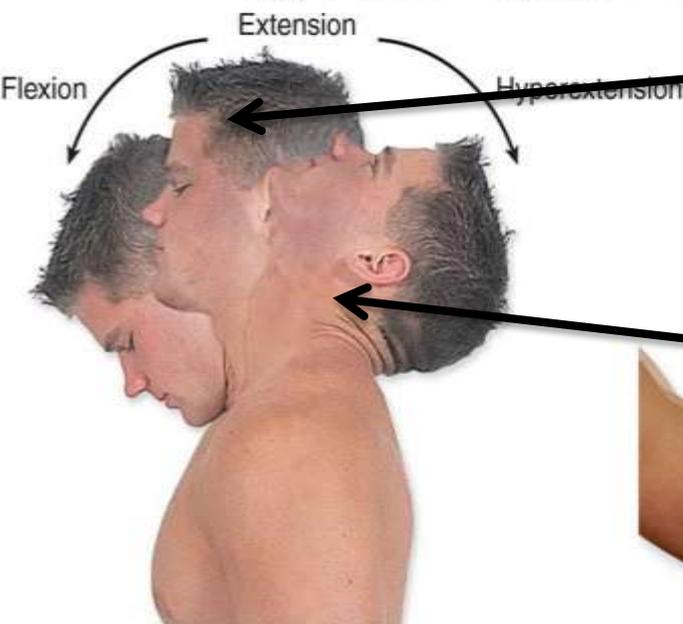
(d) Metacarpophalangeal joints of the fingers (not the thumb)



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حركة مفصل الرأس انثناء

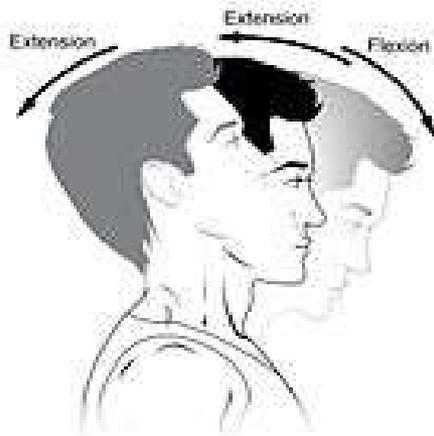
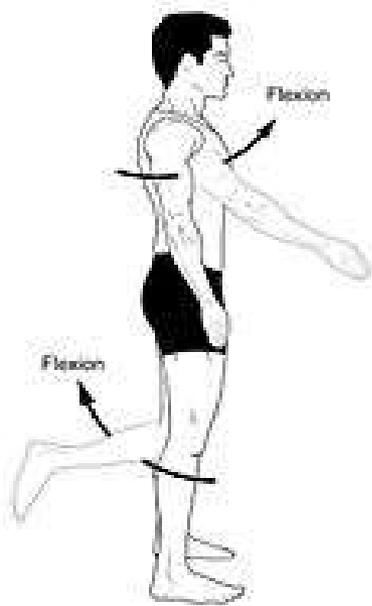
حركة مفصل الرأس تمديد



حركة مفصل الرأس فرط التمديد

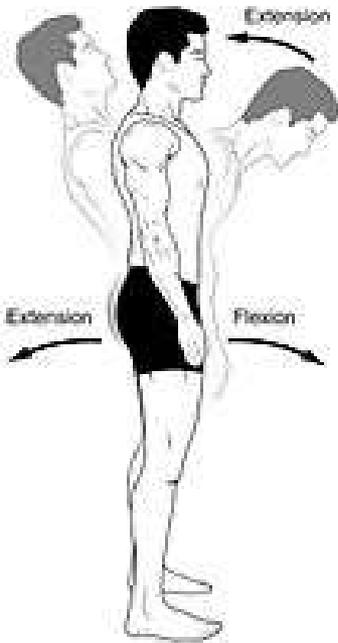
(a)

(b)

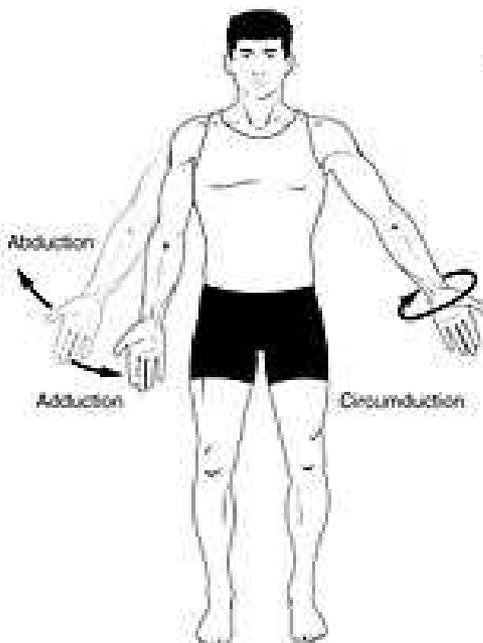


(a) and (b) Angular movements: flexion and extension at the shoulder and knees

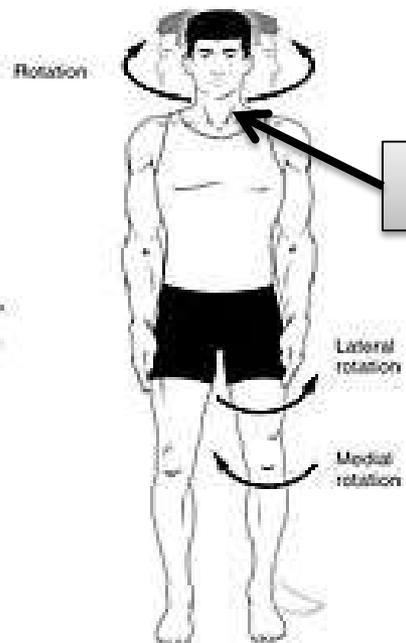
(c) Angular movements: flexion and extension of the neck



(d) Angular movements: flexion and extension of the vertebral column

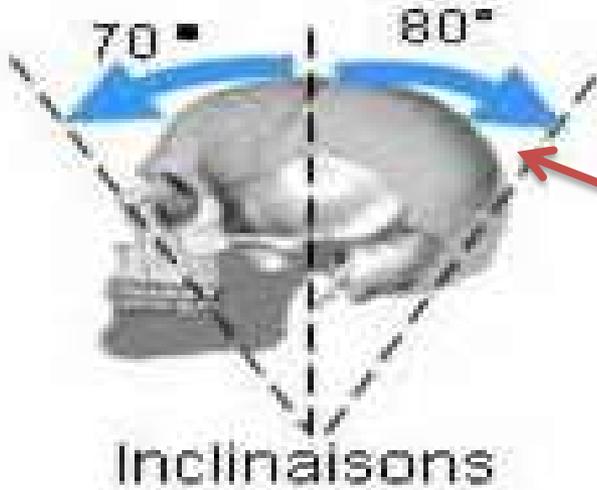


(e) Angular movements: abduction, adduction, and circumduction of the upper limb at the shoulder

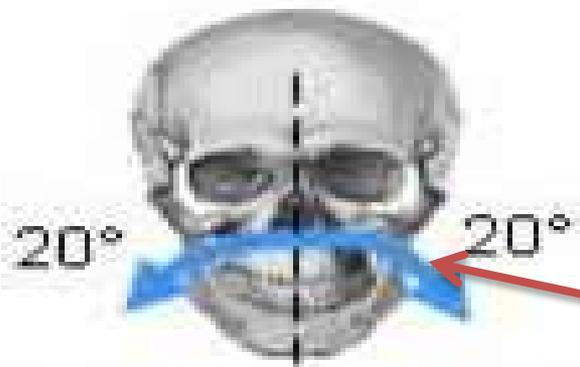


(f) Rotation of the head, neck, and lower limb

حركة مفصل الرأس دوران



حركة انحناء أو الميل



حركة الانحناء أو الميل الضعيف

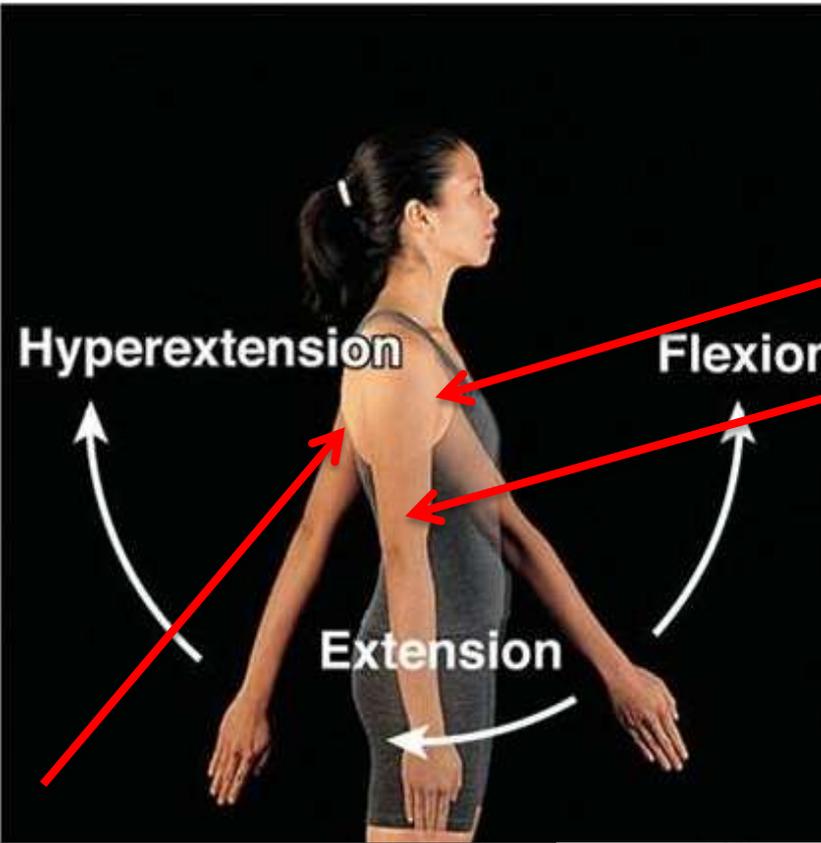
Inclinaison latérale
très faible

حركة مفصل الكتف

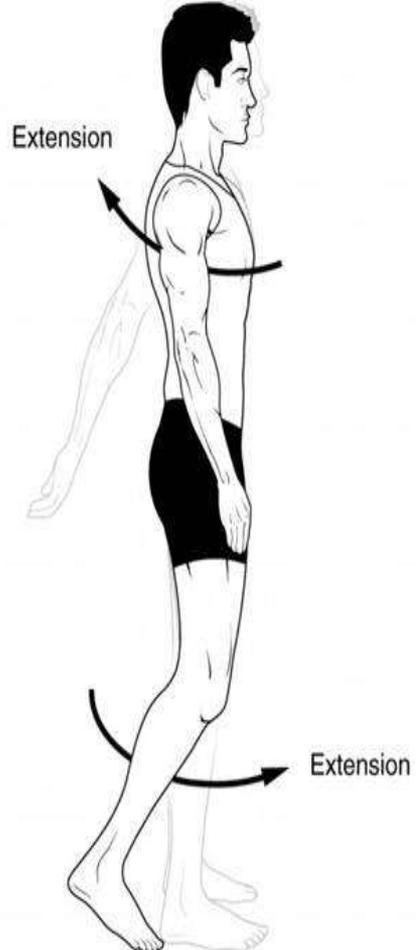
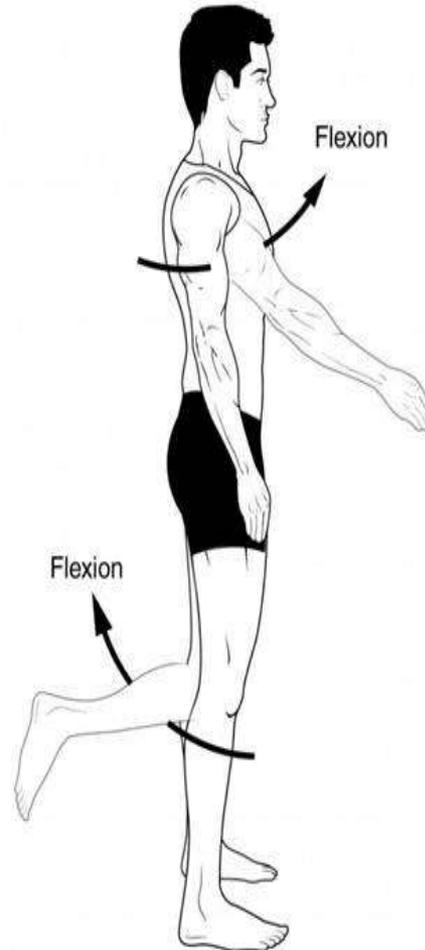
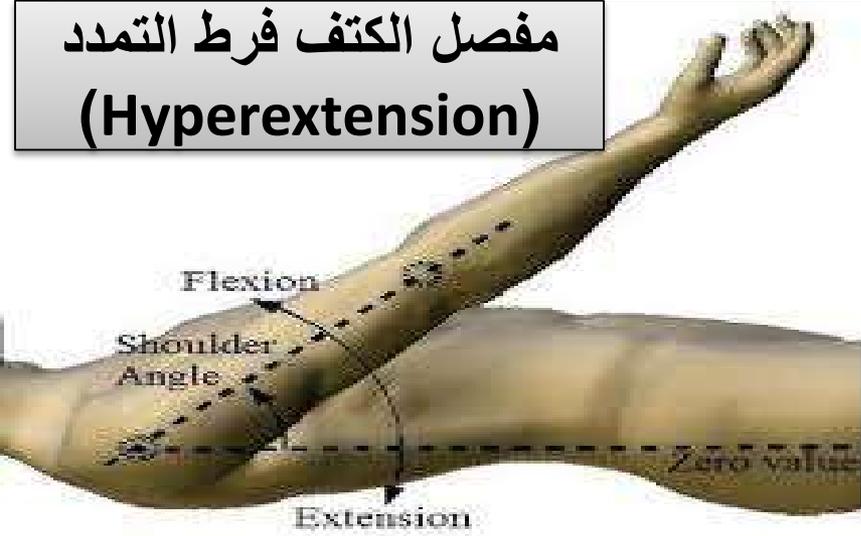
L'articulation scapulohumérale

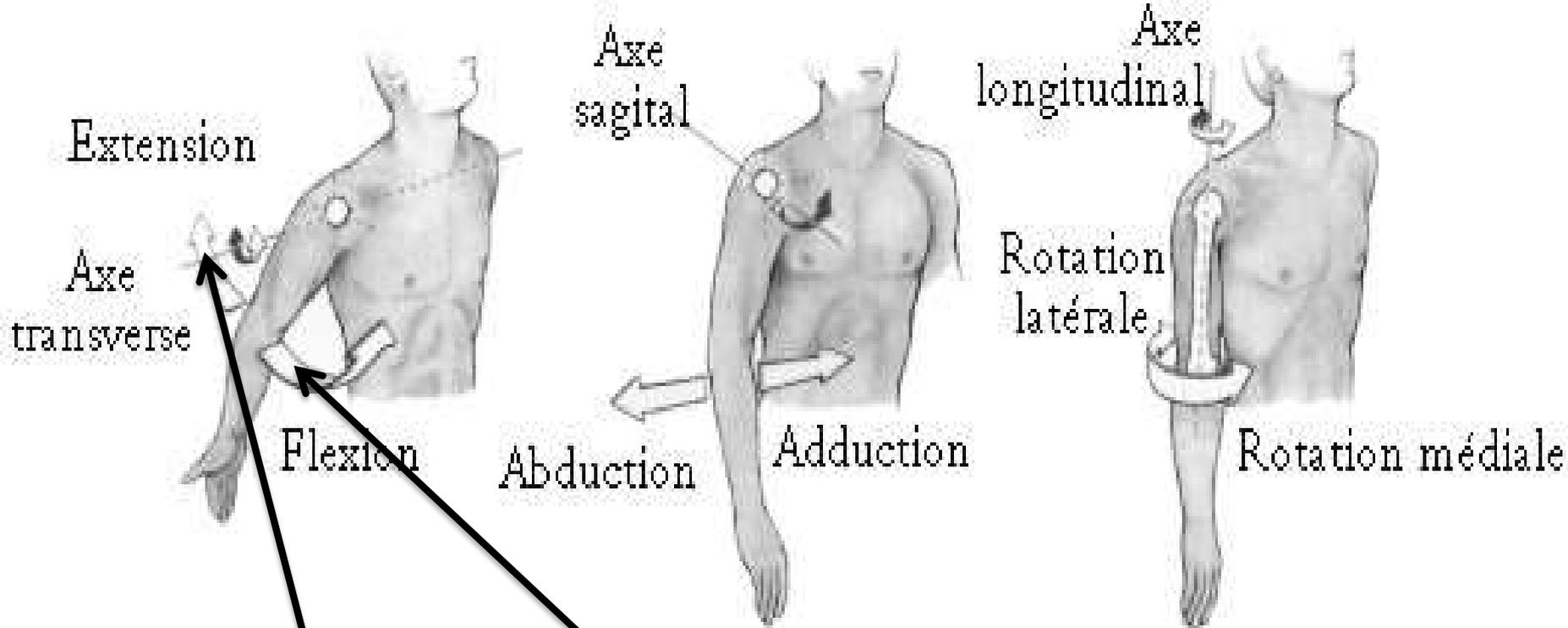
مفصل الكتف ثني (Flexion)

مفصل الكتف مد (Extension)



مفصل الكتف فرط التمدد (Hyperextension)





مفصل الكتف تمديد

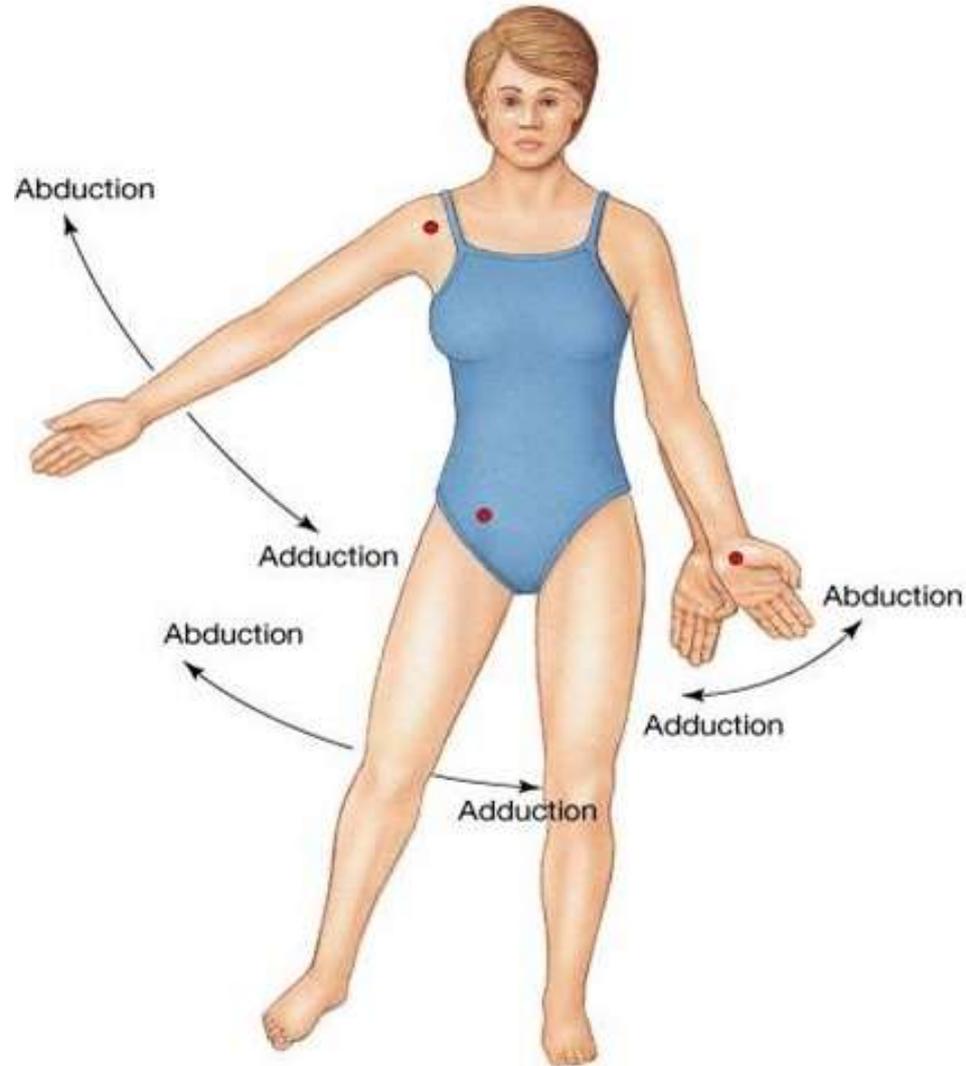
مفصل الكتف ثني

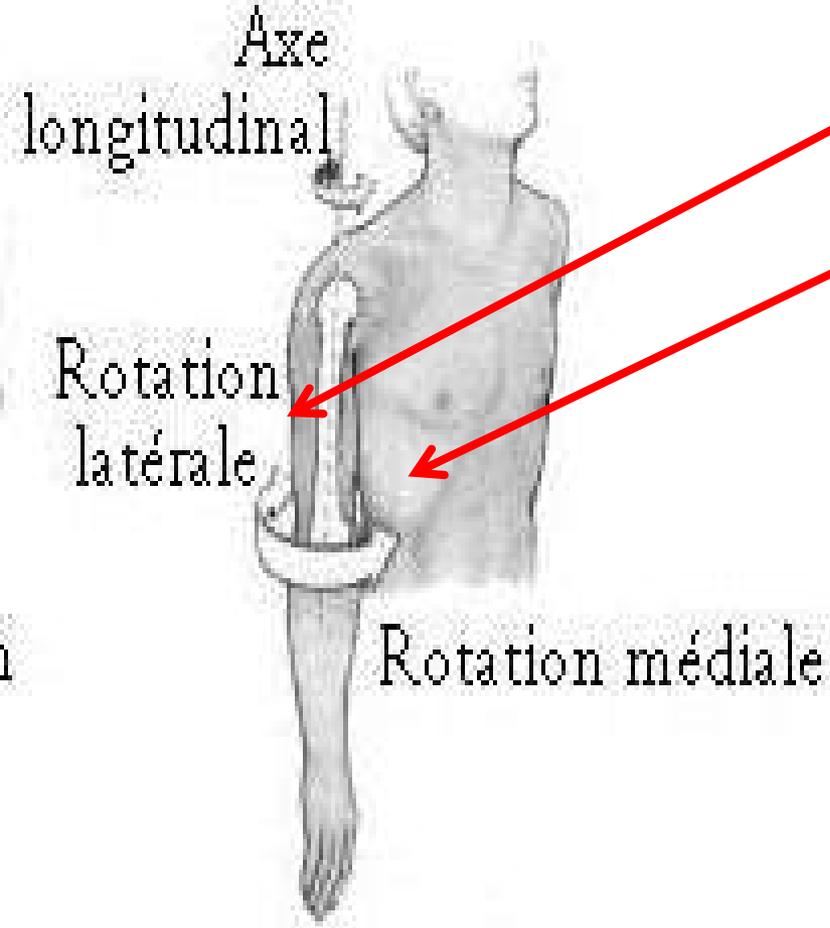
تباعد (Abduction)

تقريب (Adduction)



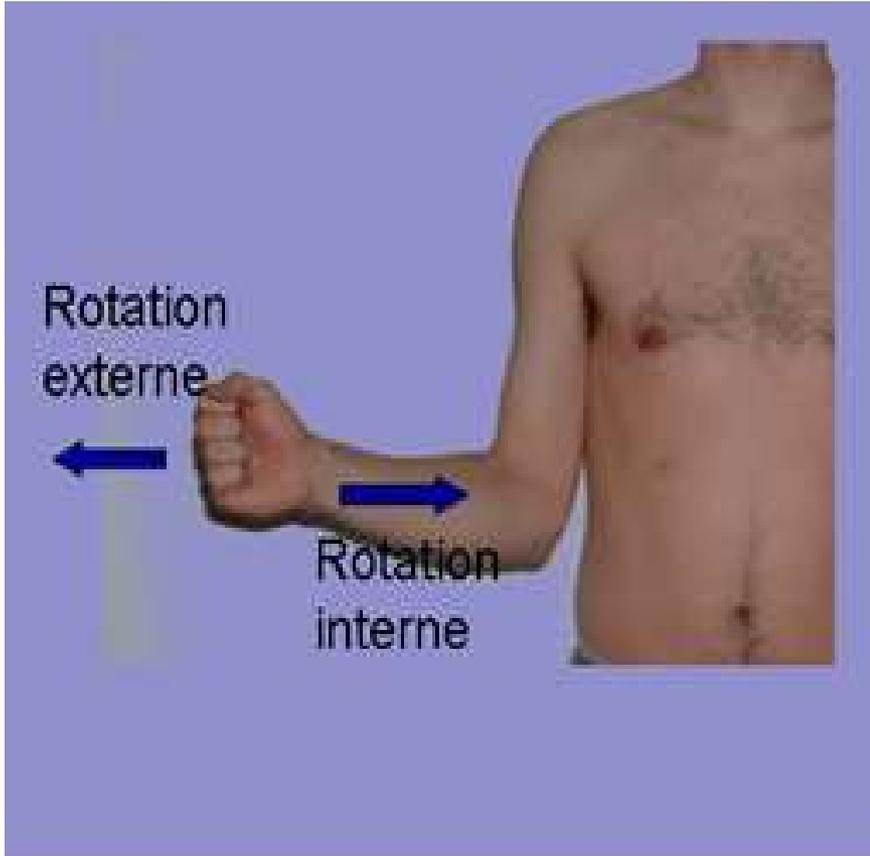
(a) Shoulder joint





(Rotation latérale) دوران جانبي

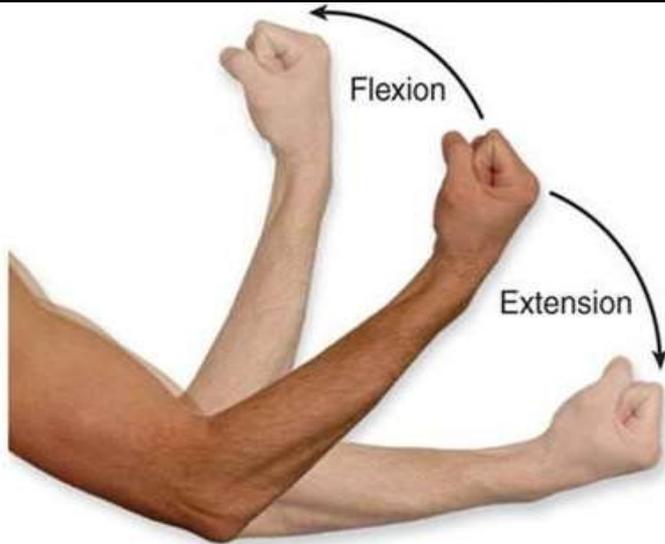
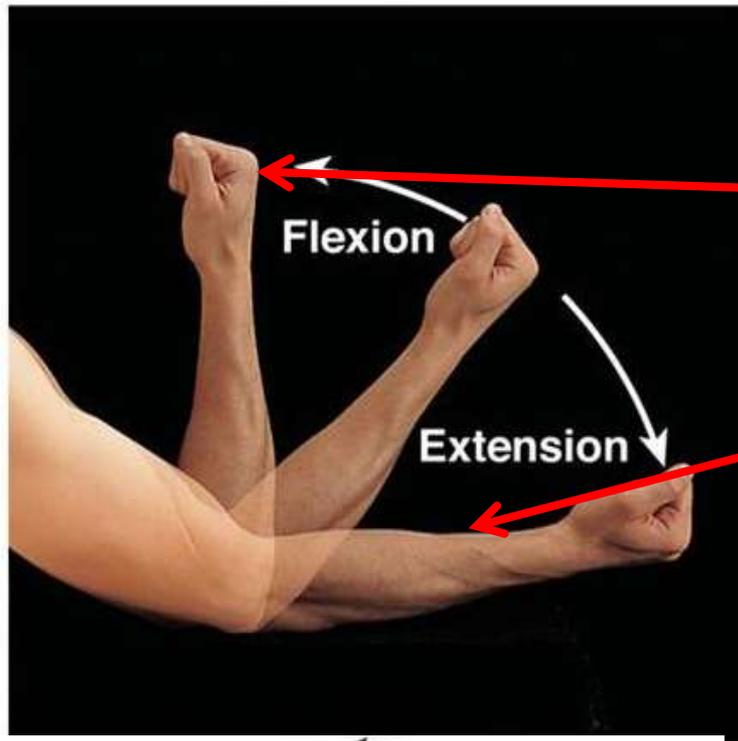
(Rotation médiale) دوران داخلي



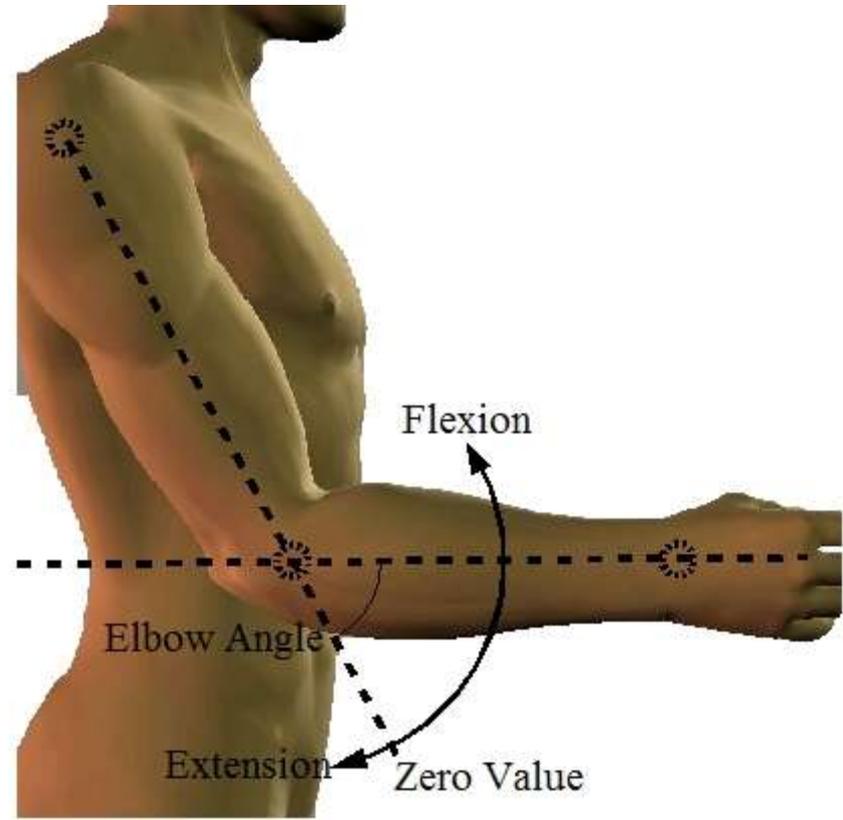
حركة مفصل المرفق L'articulation de code

مفصل المرفق ثني (Extension)

مفصل المرفق مد (Extension)



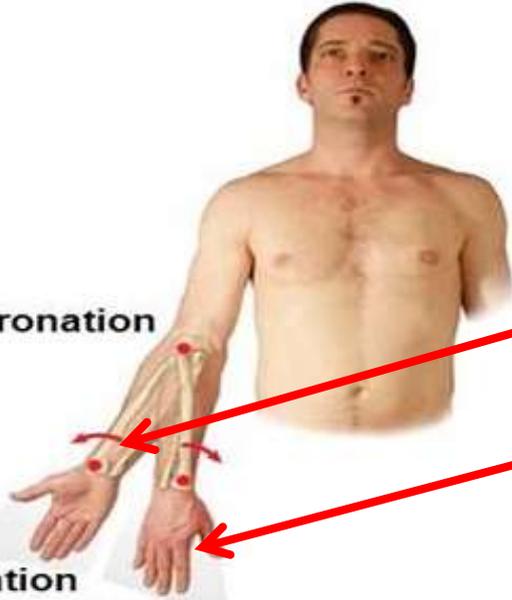
(b)



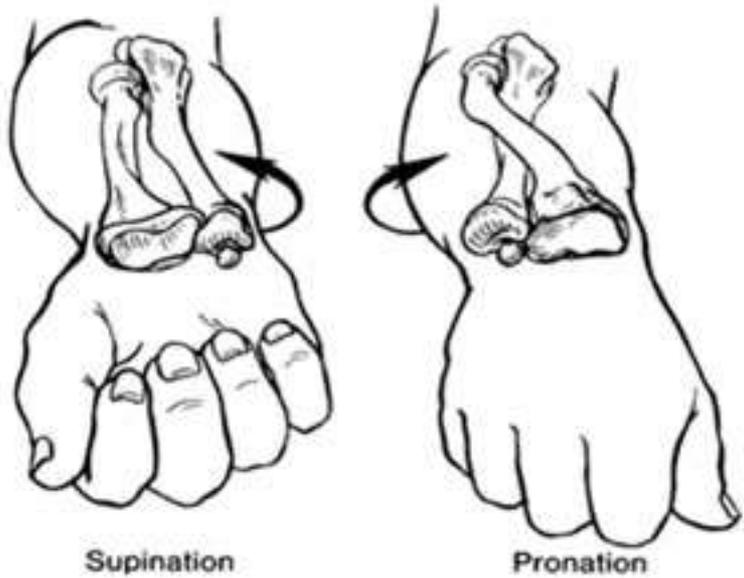
حركة مفصل الكعبري الزندي العلوي و السفلي L'articulation radio cubitale supérieure et inferieur



Pronation



Supination
Pronation

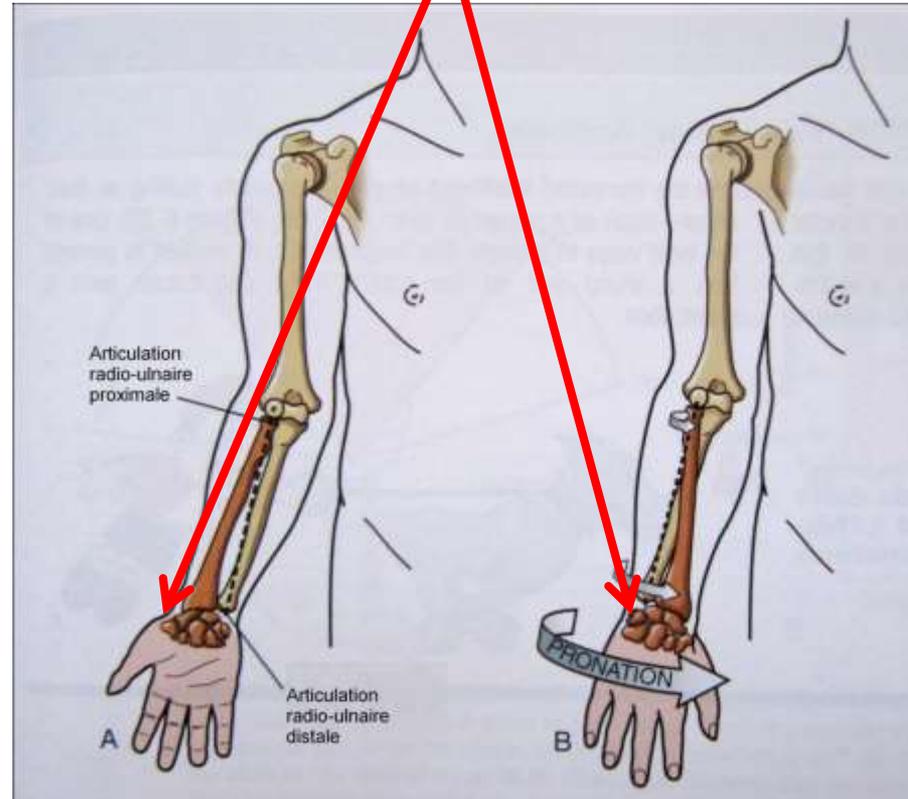


Supination

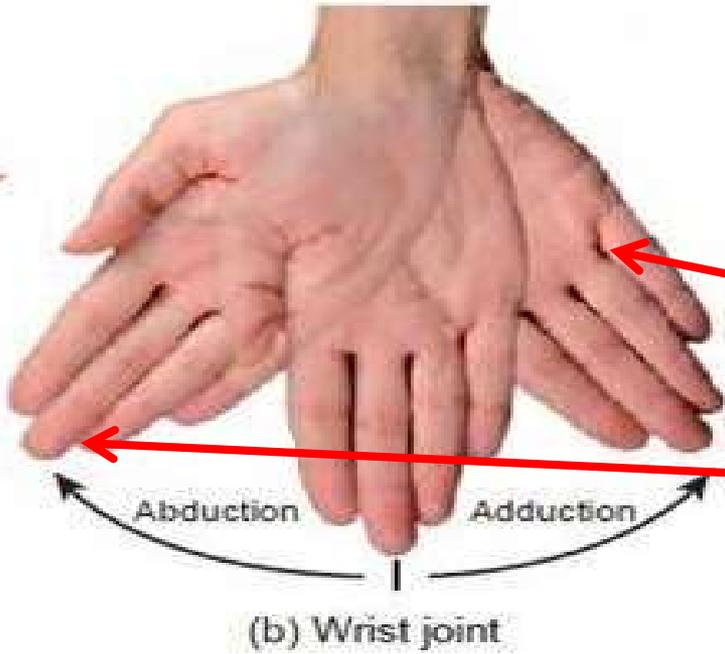
Pronation

Supination بسط اليد

Pronation كب اليد

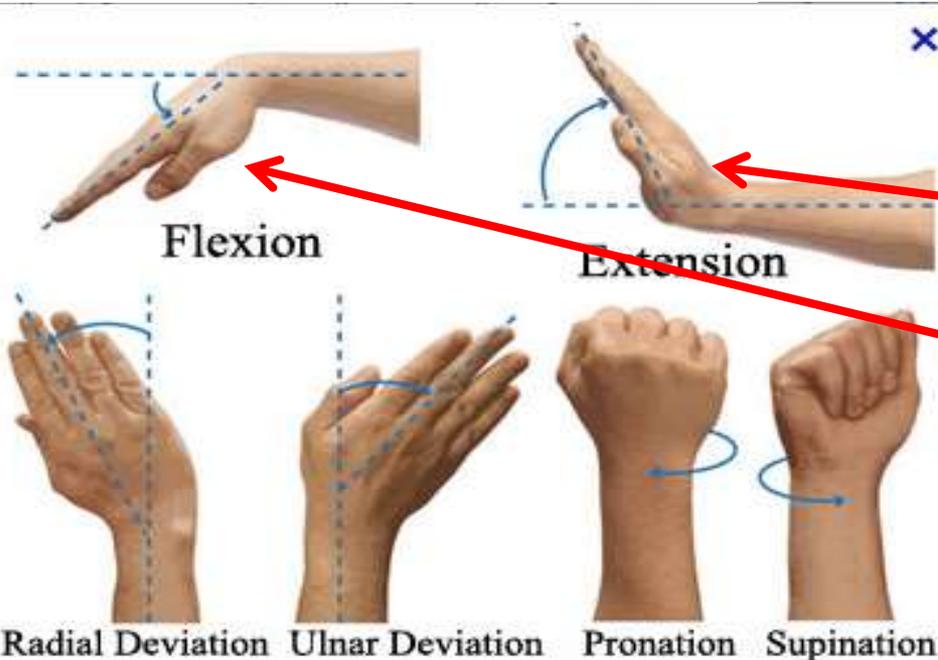


حركة مفصل المعصم
L'articulation radio carpienne
(poignet)



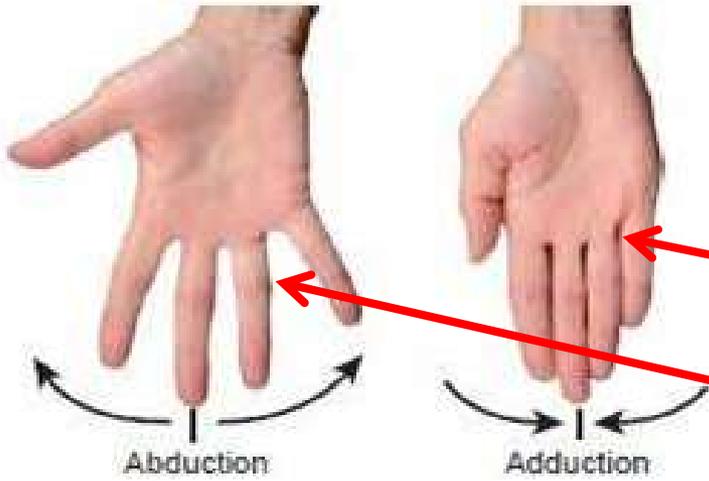
تقريب (Adduction)

تبعيد (Abduction)



مفصل المعصم مد (Extension)

مفصل المعصم ثني (Flexion)



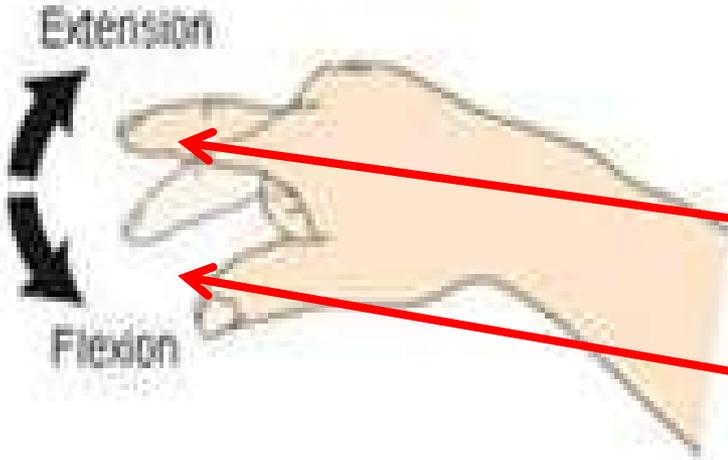
(d) Metacarpophalangeal joints of the fingers (not the thumb)

حركة المفصل الرسغي المشطي لليد L'articulation carpo-métacarpienne

تقريب (Adduction)

تبعيد (Abduction)

حركة مفاصل ما بين السلاميات Les articulations inter phalangiennes



مد

ثني

حركة مفصل الفخذ
L'articulation coxo-fémorale

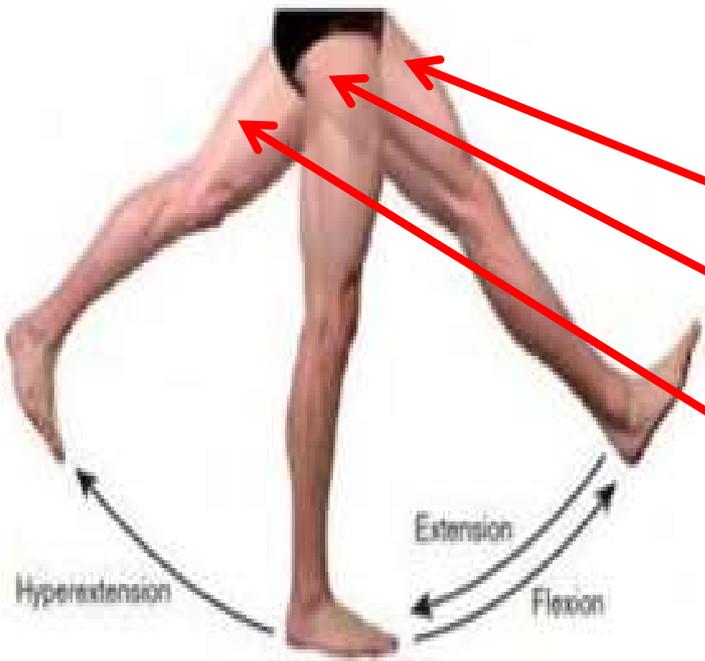
مفصل الفخذ ثني (Flexion)

مفصل الفخذ تمديد (Extension)

مفصل الفخذ فرط التمديد (hyper extension)

مفصل الفخذ تبعيد (Abduction)

مفصل الفخذ تقريب (adduction)



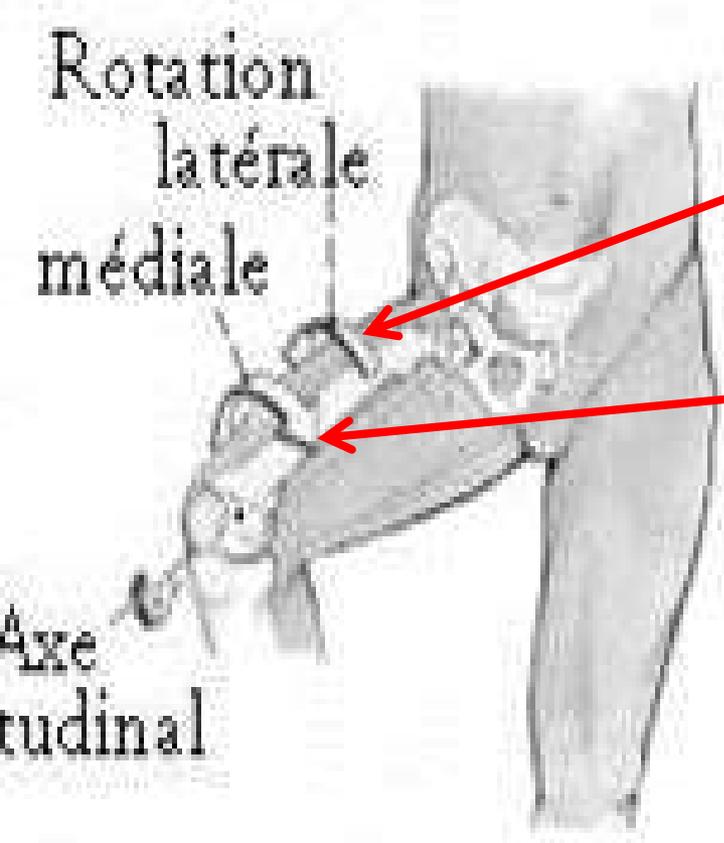
(c) Hip joint

Rotation
latérale
médiale

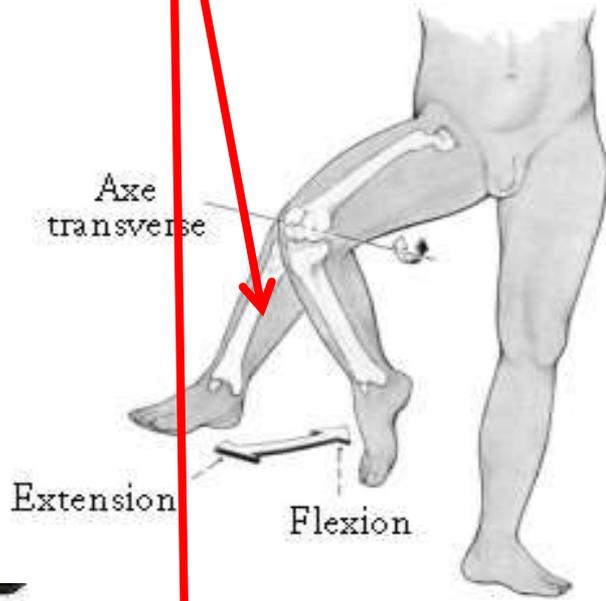
Axe
longitudinal

مفصل الفخذ دوران جانبي
(Rotation latérale)

مفصل الفخذ دوران وسطي
(Rotation médiale)

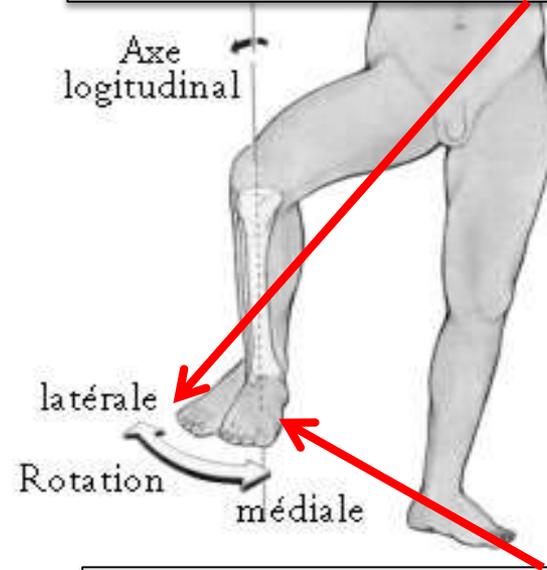


مفصل الركبة تمديد (Extension)



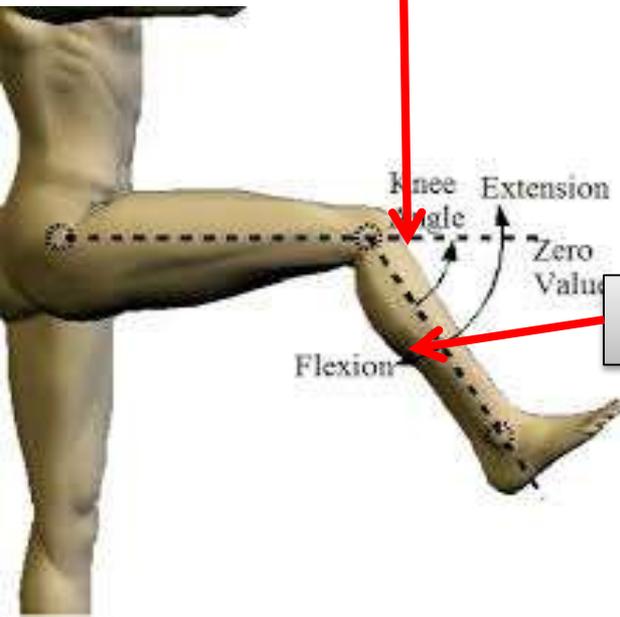
حركة مفصل الركبة
L'articulation de genou

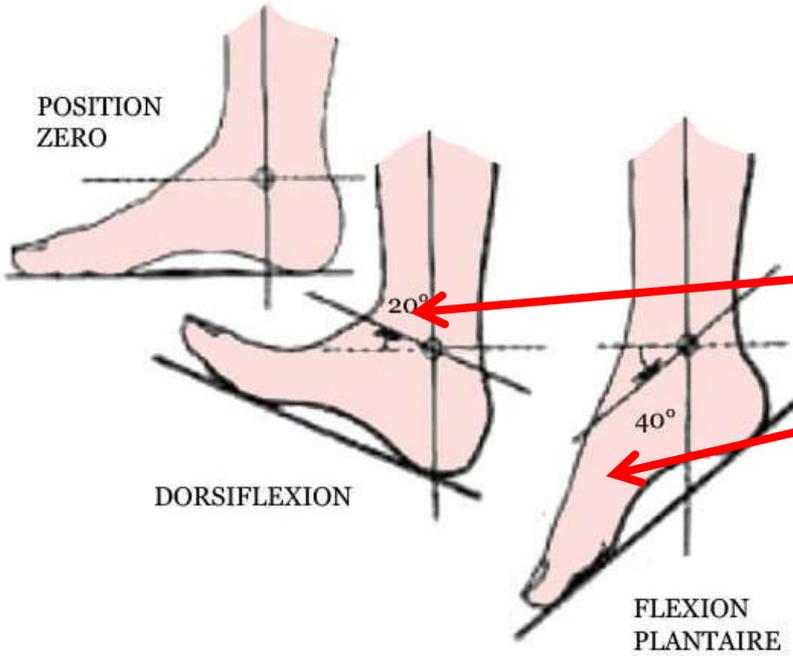
مفصل الركبة دوران جانبي (Flexion)



مفصل الركبة دوران داخلي (Flexion)

مفصل الركبة ثني (Flexion)





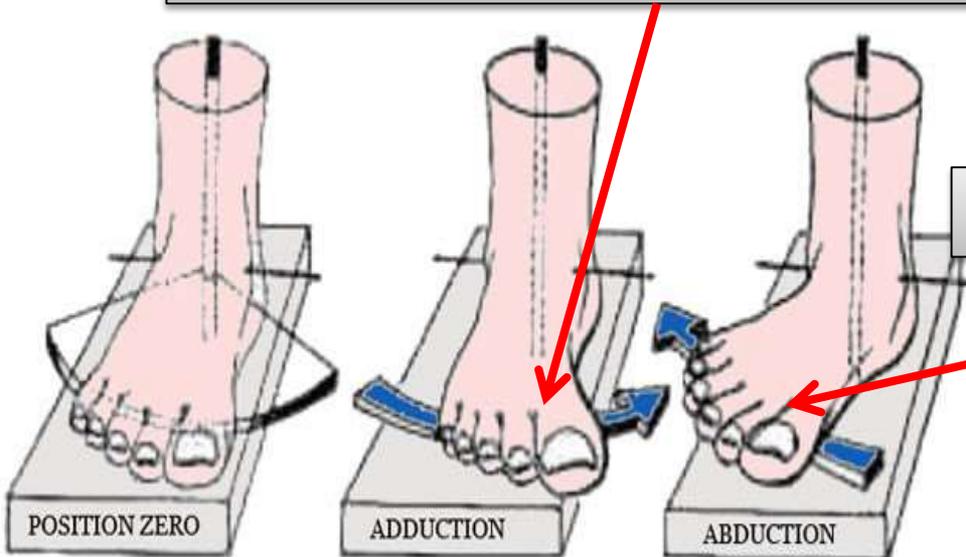
حركة مفصل القدم L'articulation de la cheville

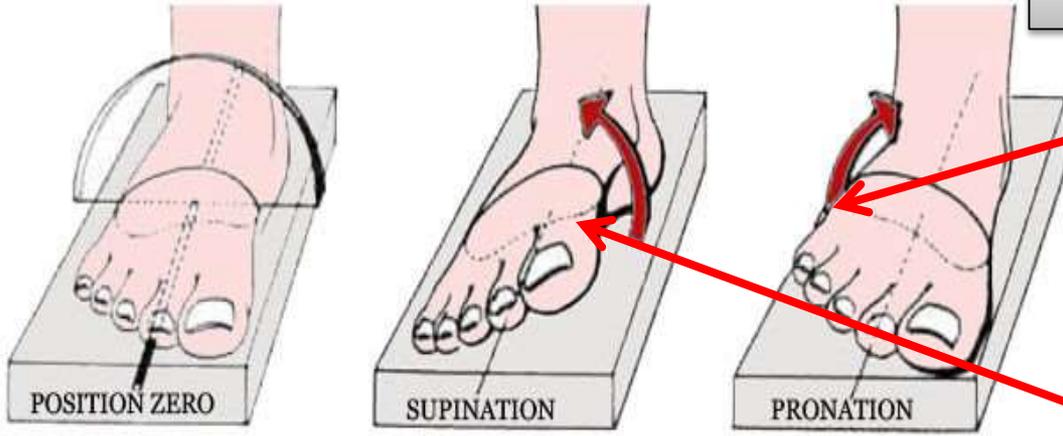
مفصل القدم ثني ظهري (Dorsiflexion)

مفصل القدم ثني باطني (Flexion plantaire)

مفصل القدم تقريب (Adduction)

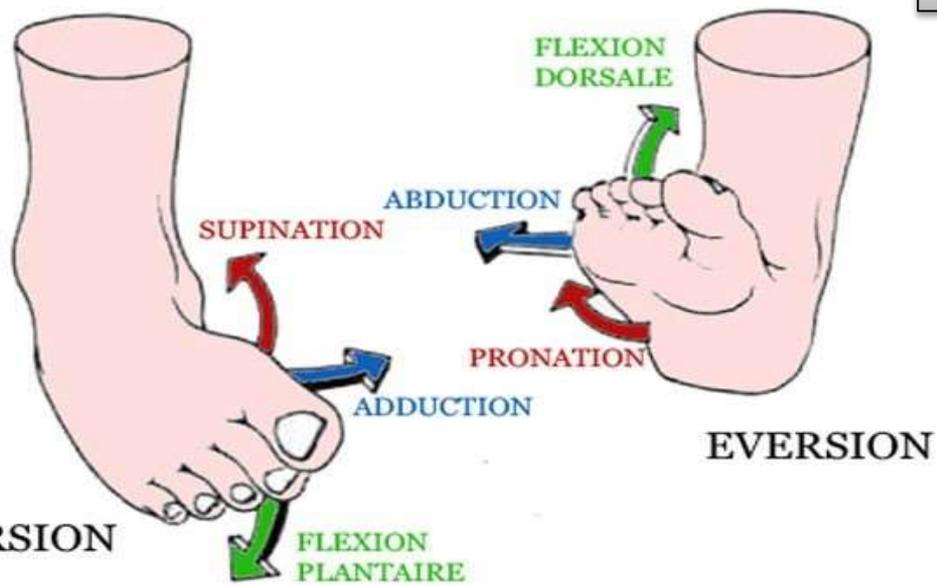
مفصل القدم تباعد (Abduction)

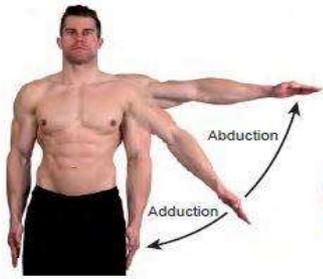




مفصل القدم (pronation)

مفصل القدم (supination)





(a) Shoulder joint



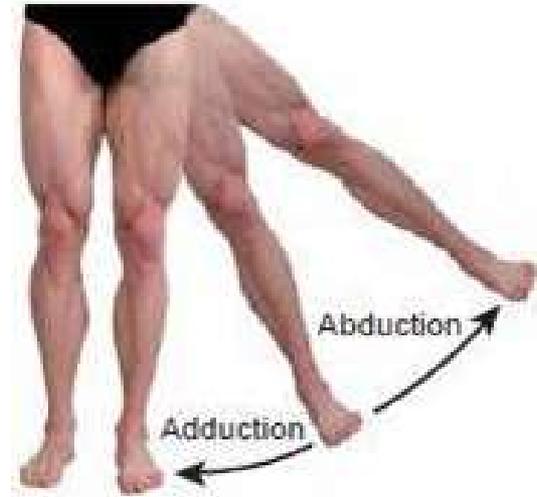
(b) Wrist joint



(c) Hip joint



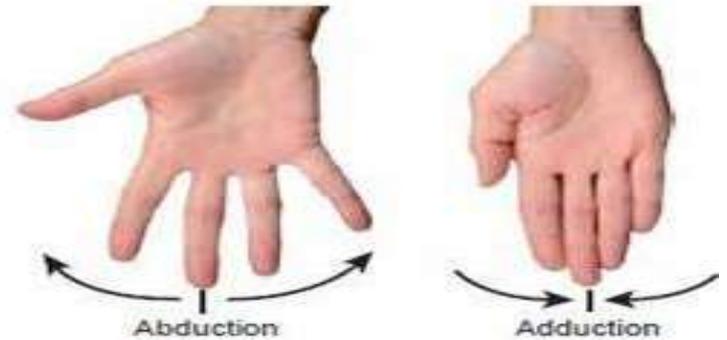
(d) Metacarpophalangeal joints of the fingers (not the thumb)



(c) Hip joint

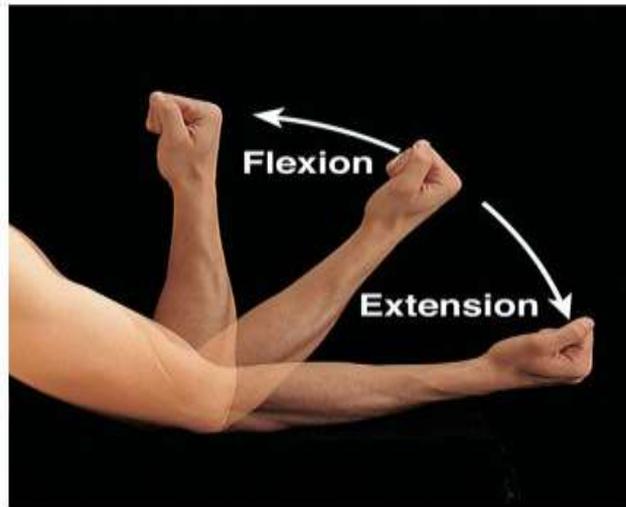


(b) Wrist joint

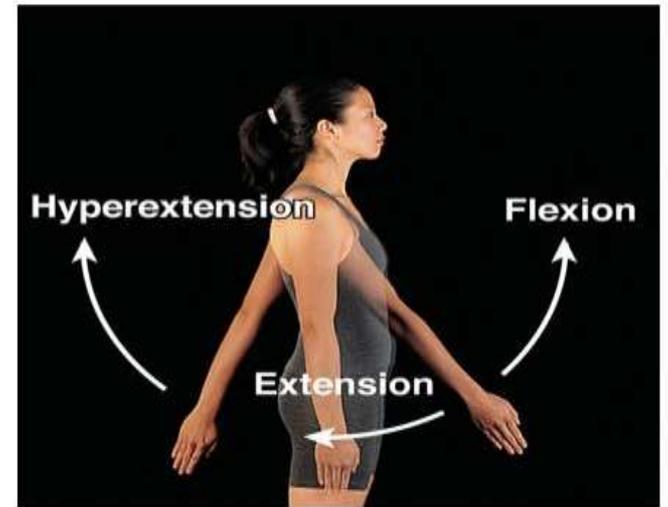


(d) Metacarpophalangeal joints of the fingers (not the thumb)

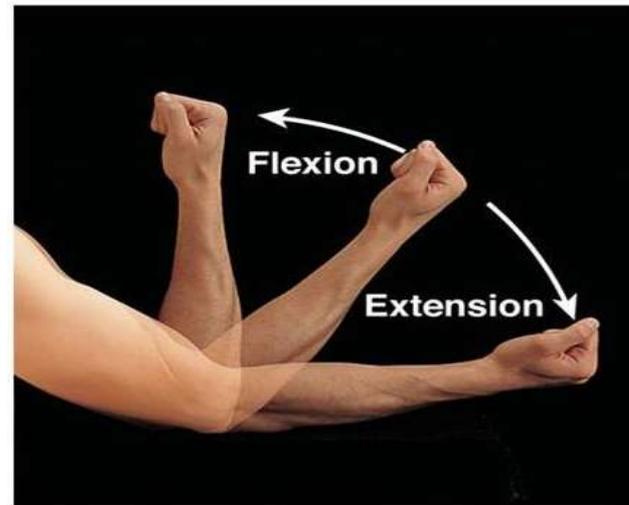
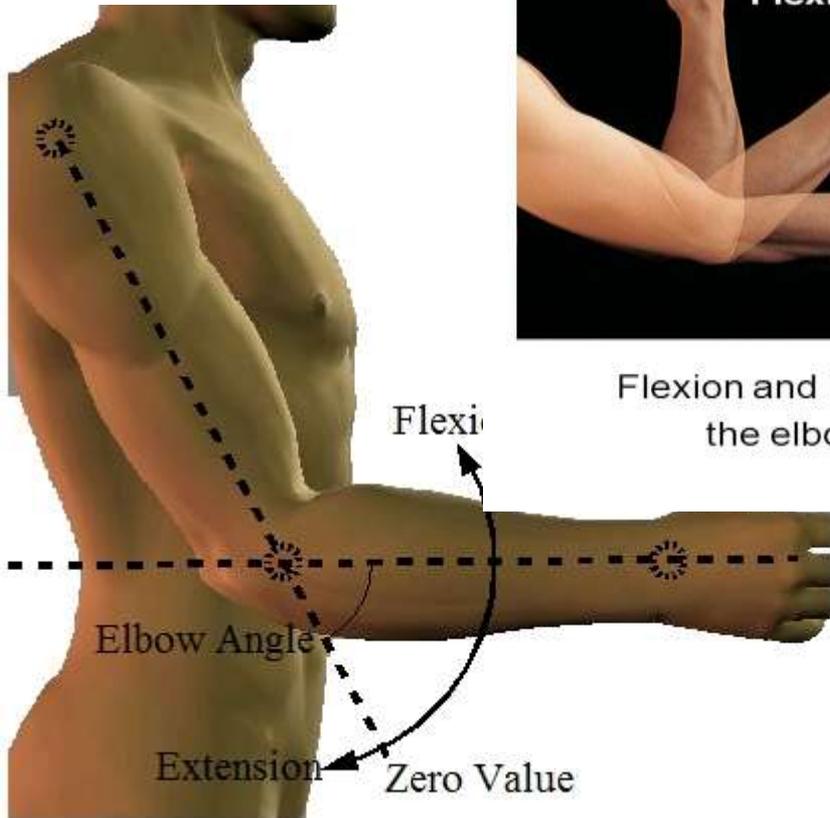
Joint Movements

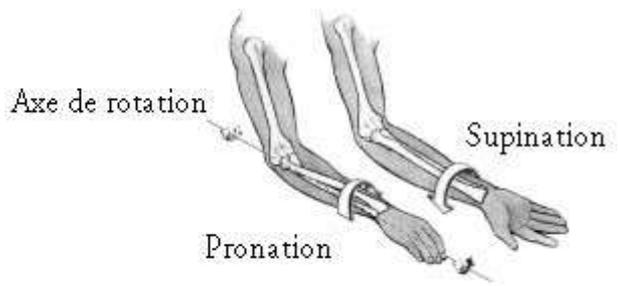
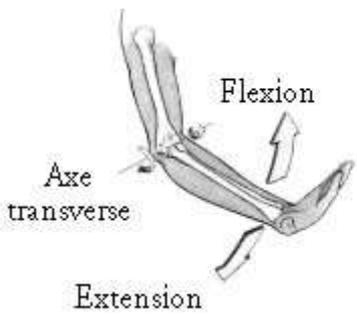
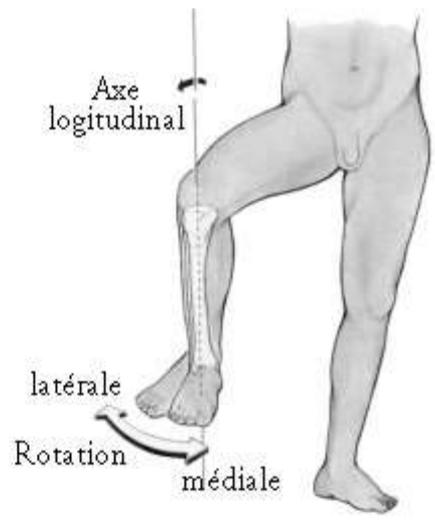
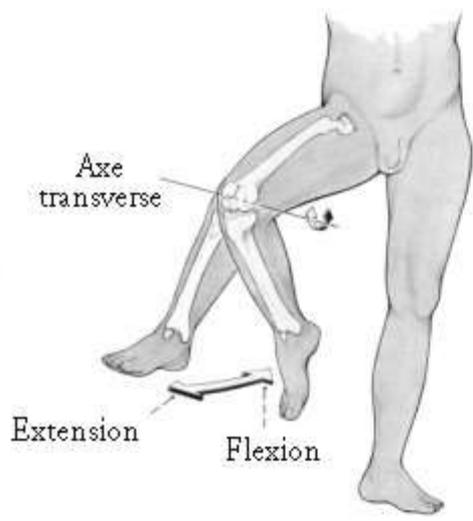


Flexion and Extension at the elbow joint

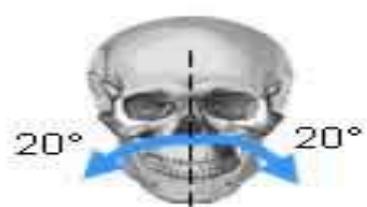


Hyperextension at the





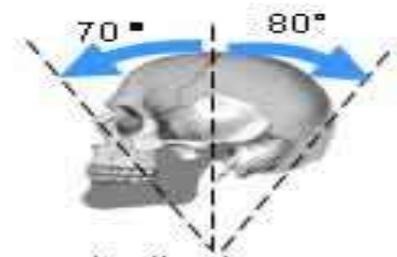
Mouvements de la tête



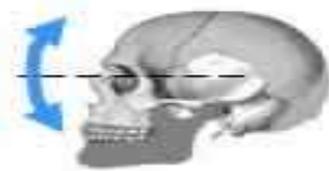
Inclinaison latérale
très faible



Rotation
(Signe du non)

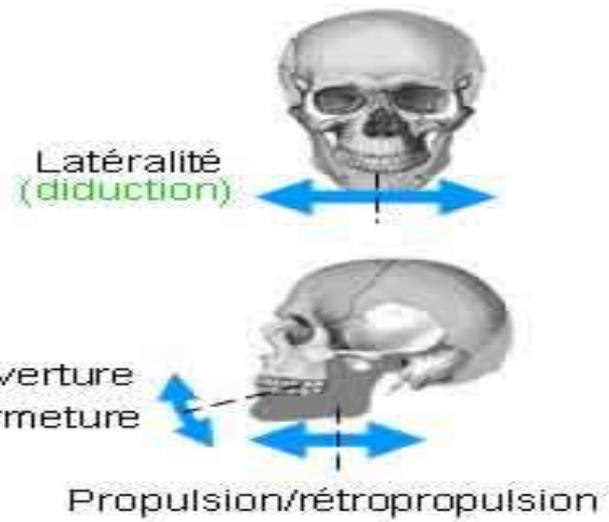
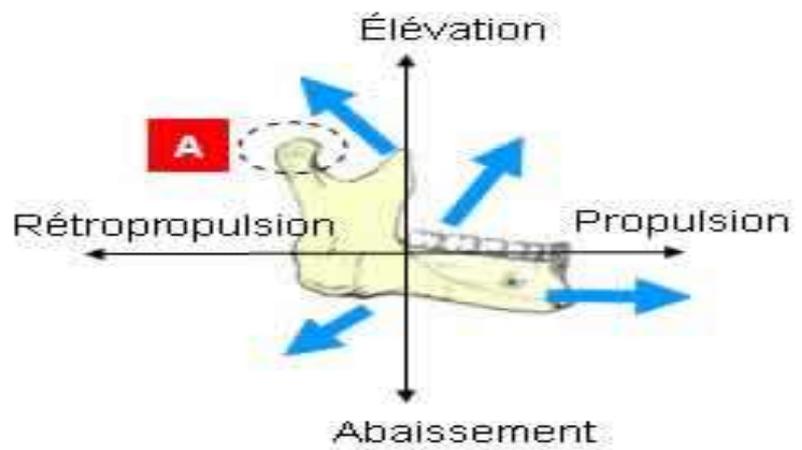


Inclinaisons



Flexion homolatérale
(Signe du « Oui »)

Mouvements de l'articulation temporo mandibulaire (ATM)





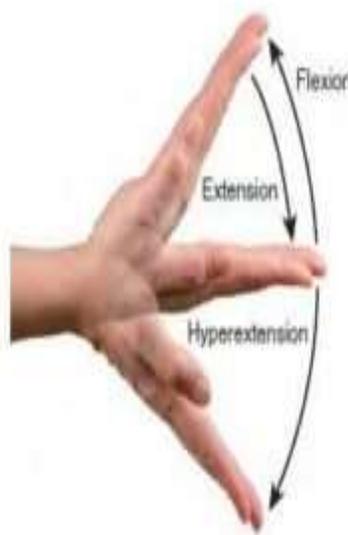
(a) Atlanto-occipital and cervical intervertebral joints



(b) Shoulder joint



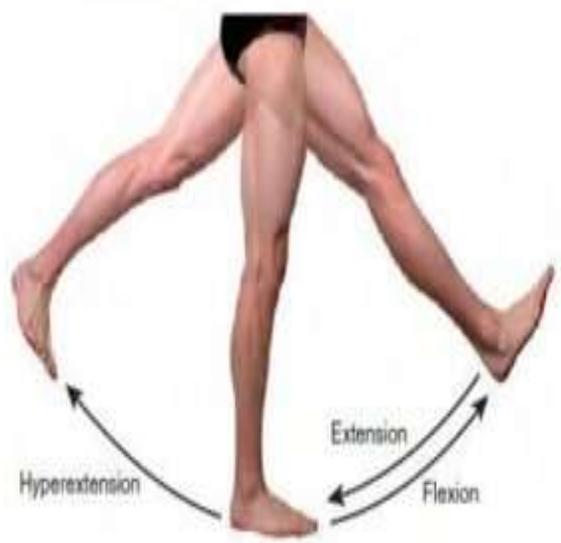
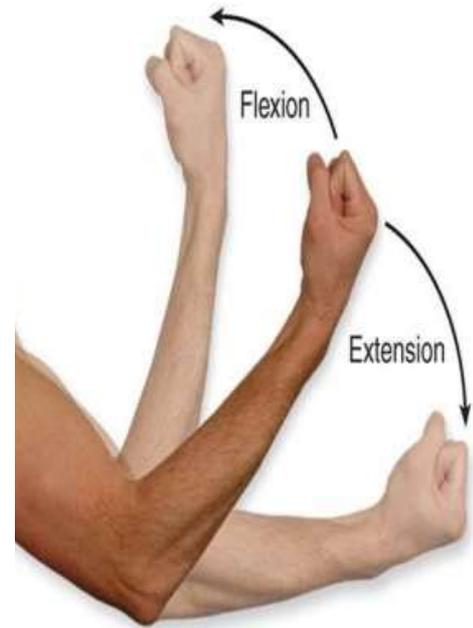
(c) Elbow joint



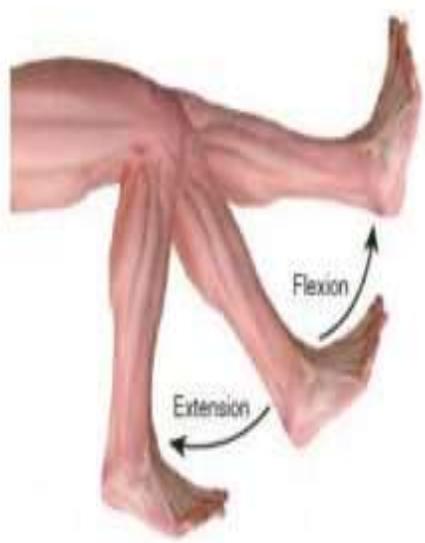
(d) Wrist joint

ission required for reproduction or display.

n



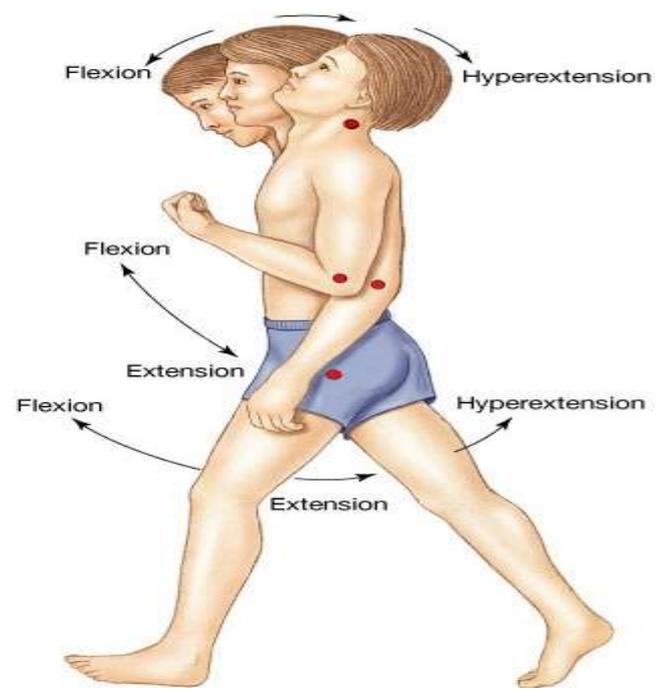
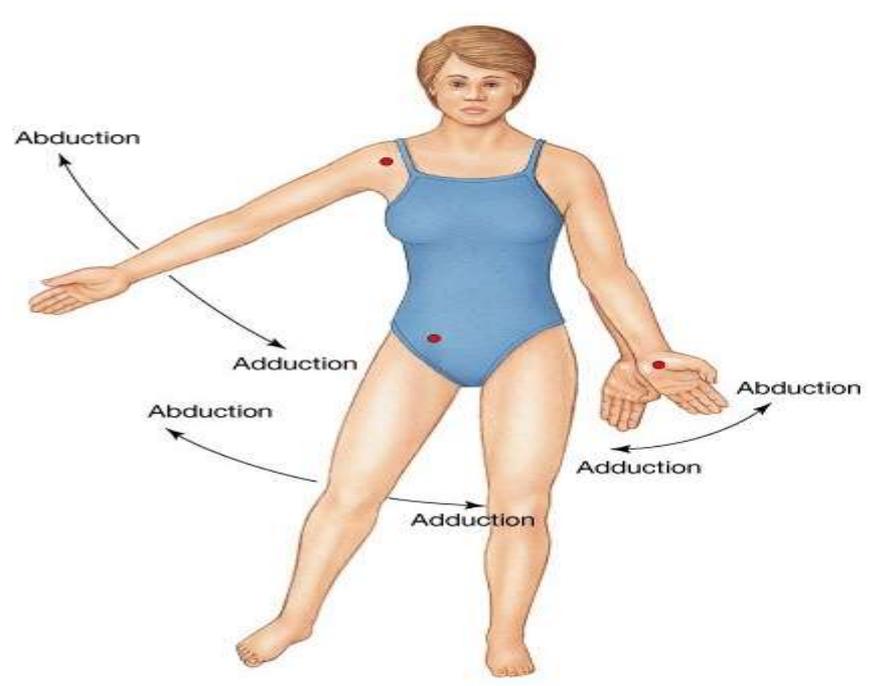
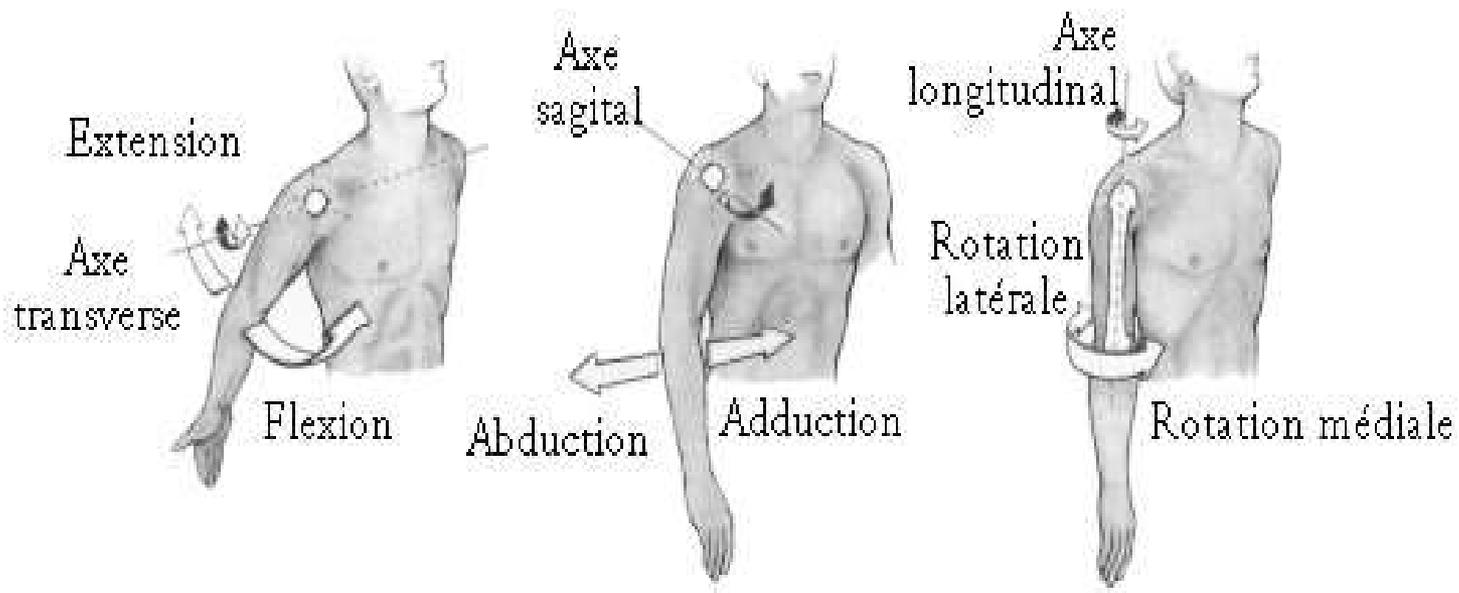
(e) Hip joint

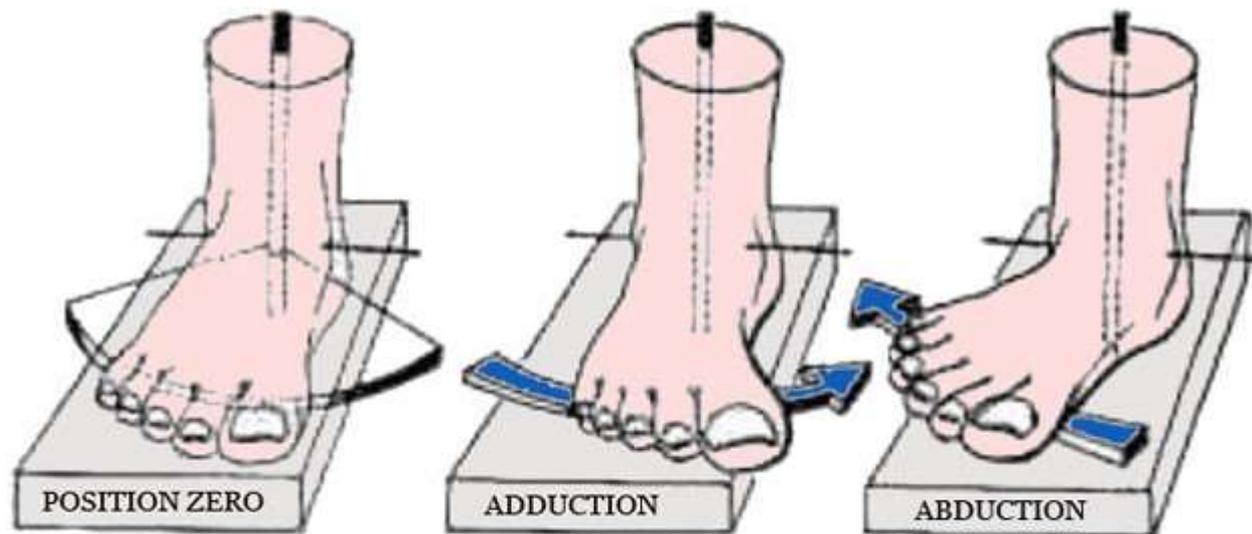


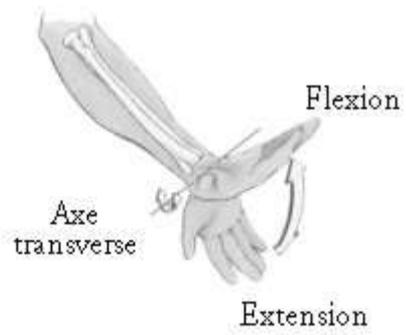
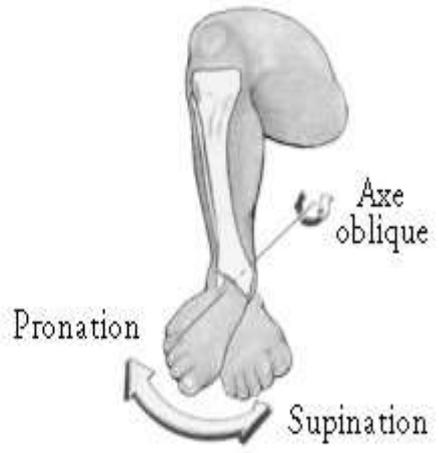
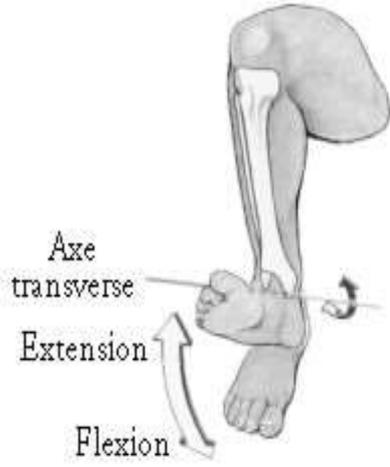
(f) Knee joint

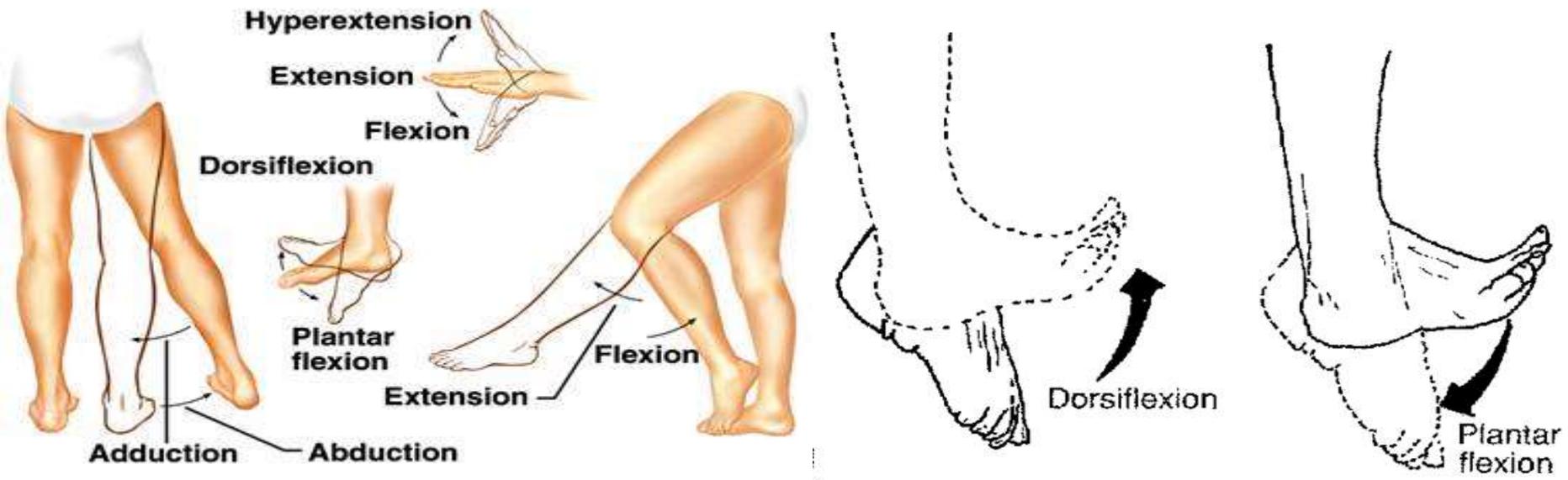


Lateral flexion

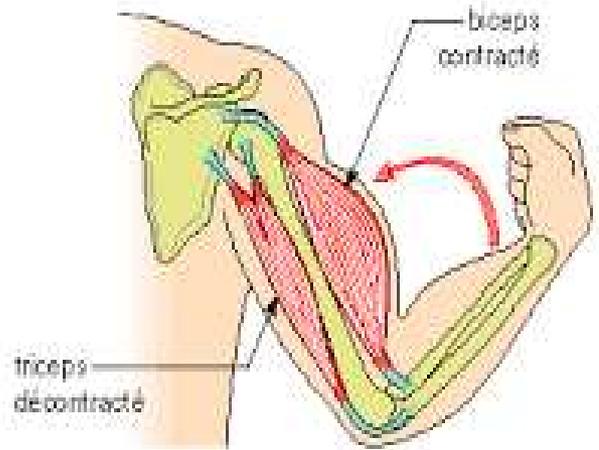








La flexion de l'avant-bras



L'avant-bras se rapproche du bras car le biceps contracté tire sur le radius sur lequel il est fixé par un tendon.

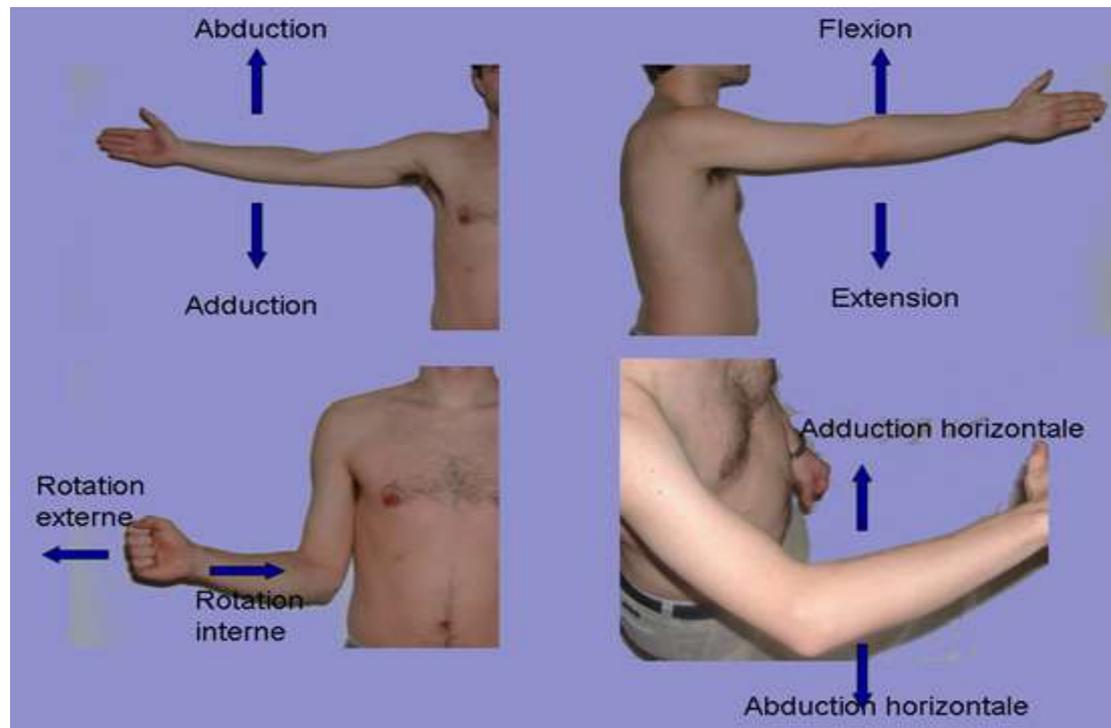
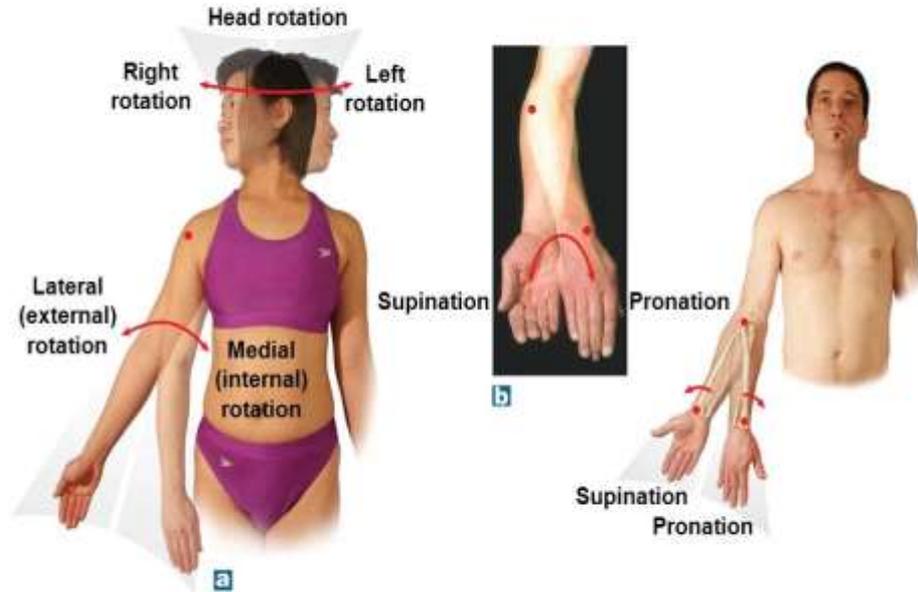
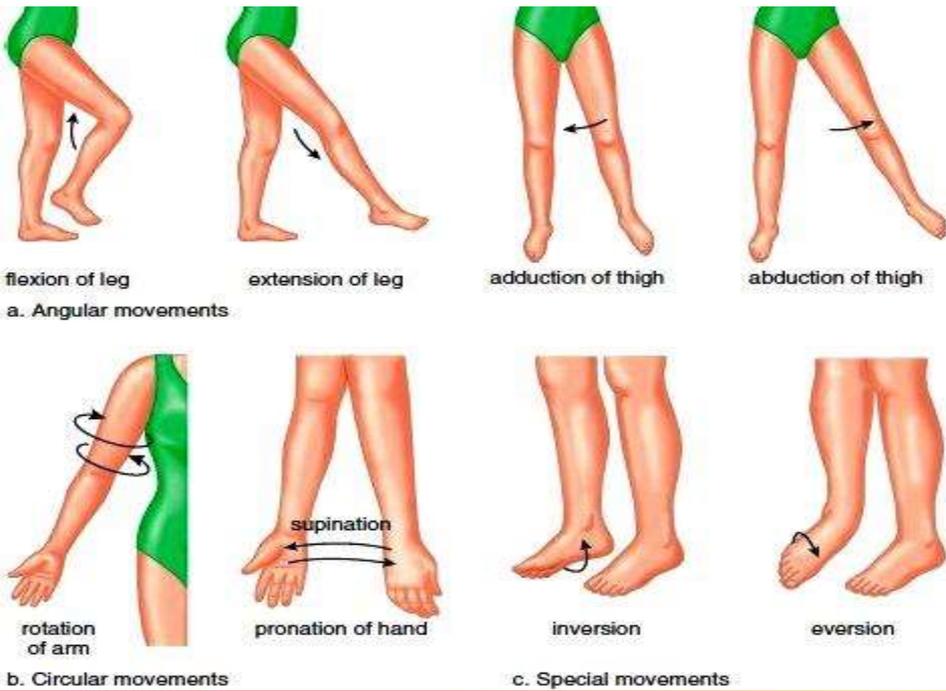


Figure 6-33 Rotational Movements.



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Joint Movements

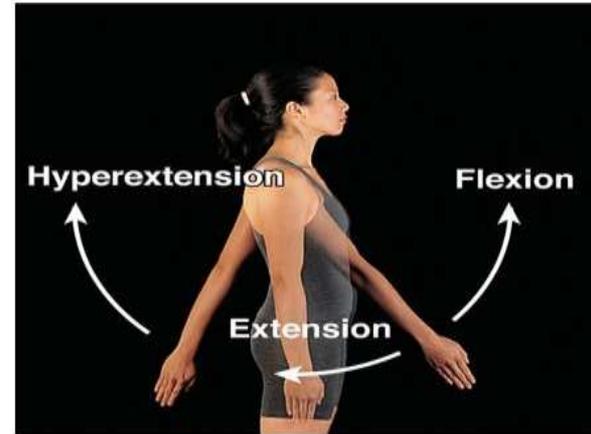
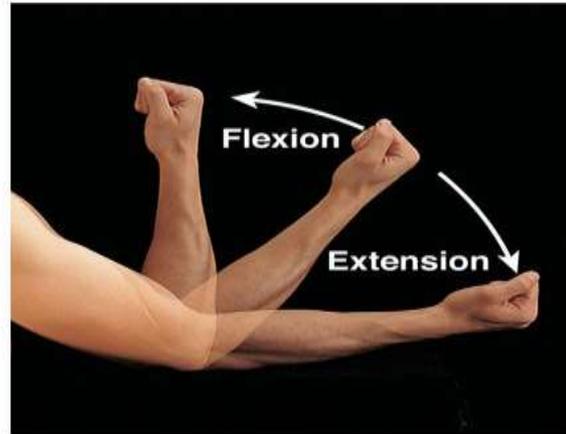
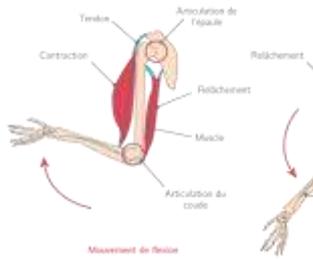
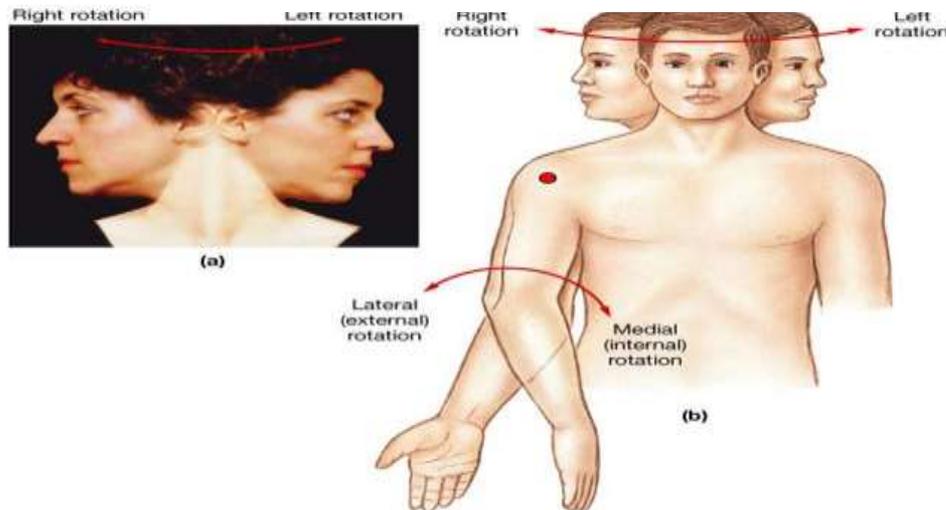


Figure 9.4 R

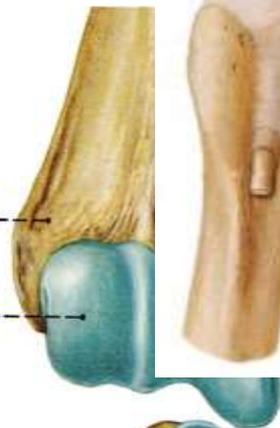
Flexion and Extension at the elbow joint

Hyperextension at the shoulder joint





Épicondyle latéral
Capitulum de l'humérus



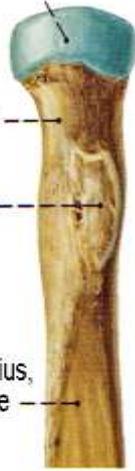
de l'humérus

Incisure trochléaire
Circonférence articulaire



Processus coronoïde
Incisure radiale

Col du radius
Tubérosité radiale

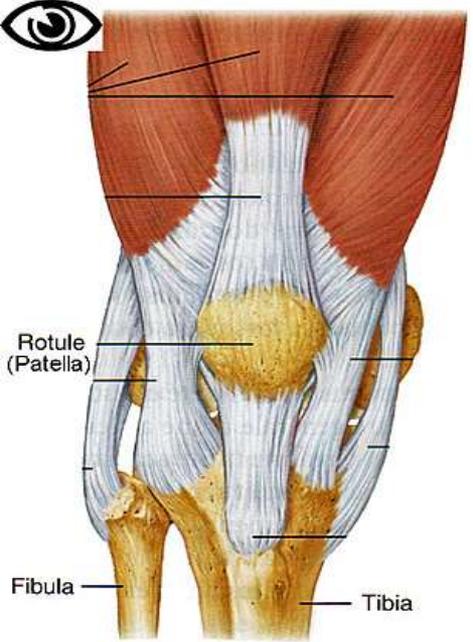
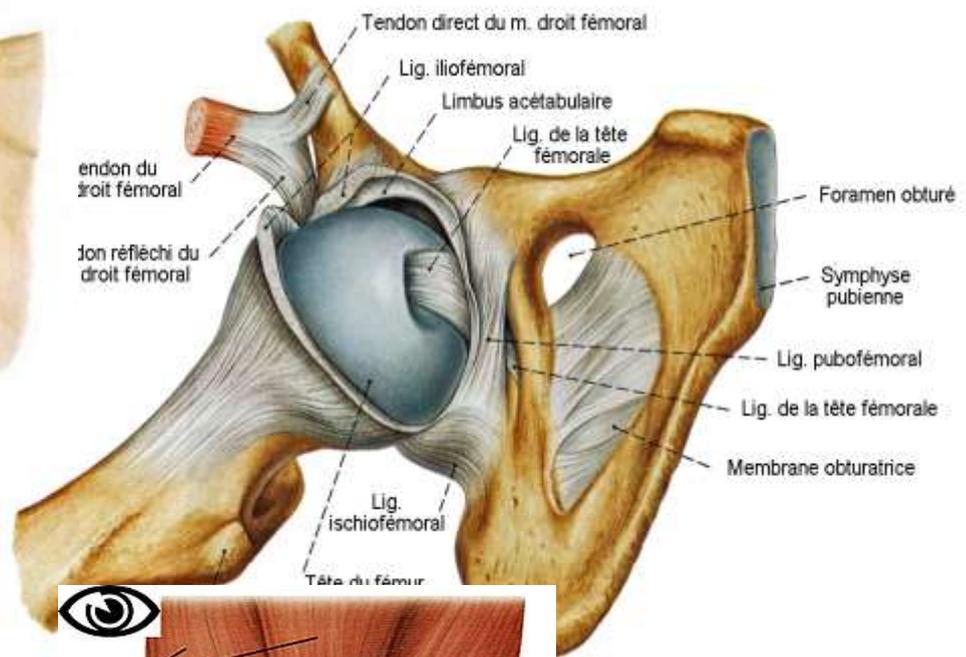


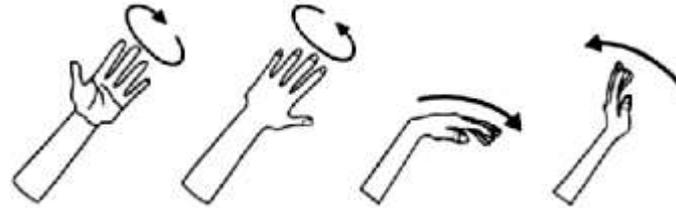
Tubérosité ulnaire

Diaphyse du radius, surface latérale



Diaphyse de l'ulna, surface antérieure



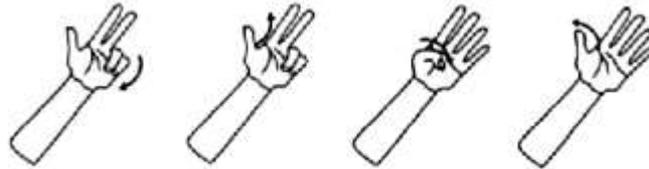


Supination

Pronation

Flexion

Extension

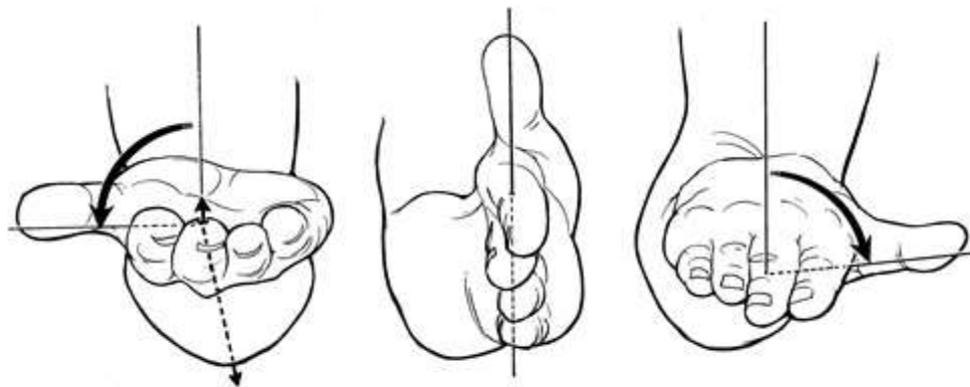


**Flexion des 4e
et 5e doigts**

**Extension des 4e
et 5e doigts**

**Flexion
du pouce**

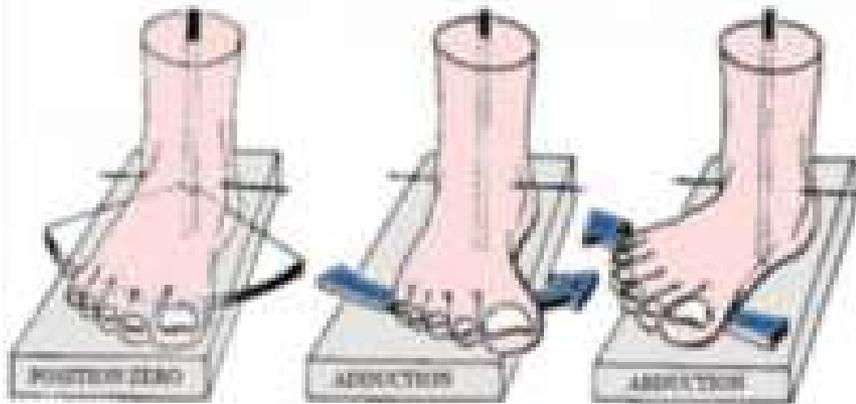
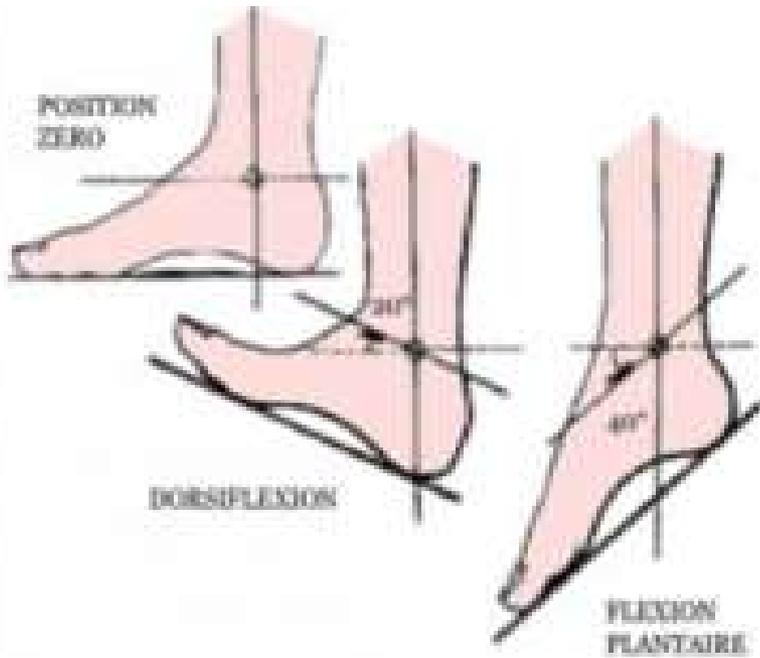
**Extension
du pouce**

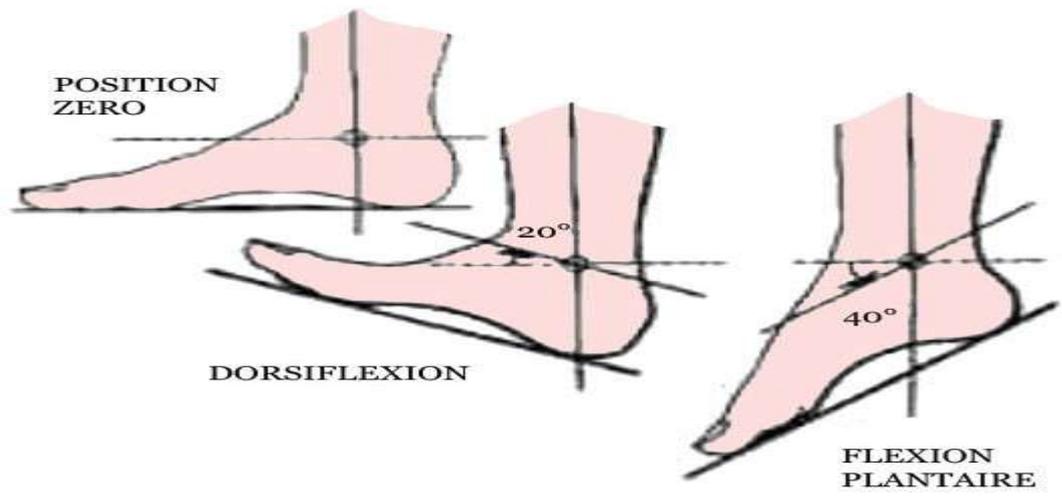


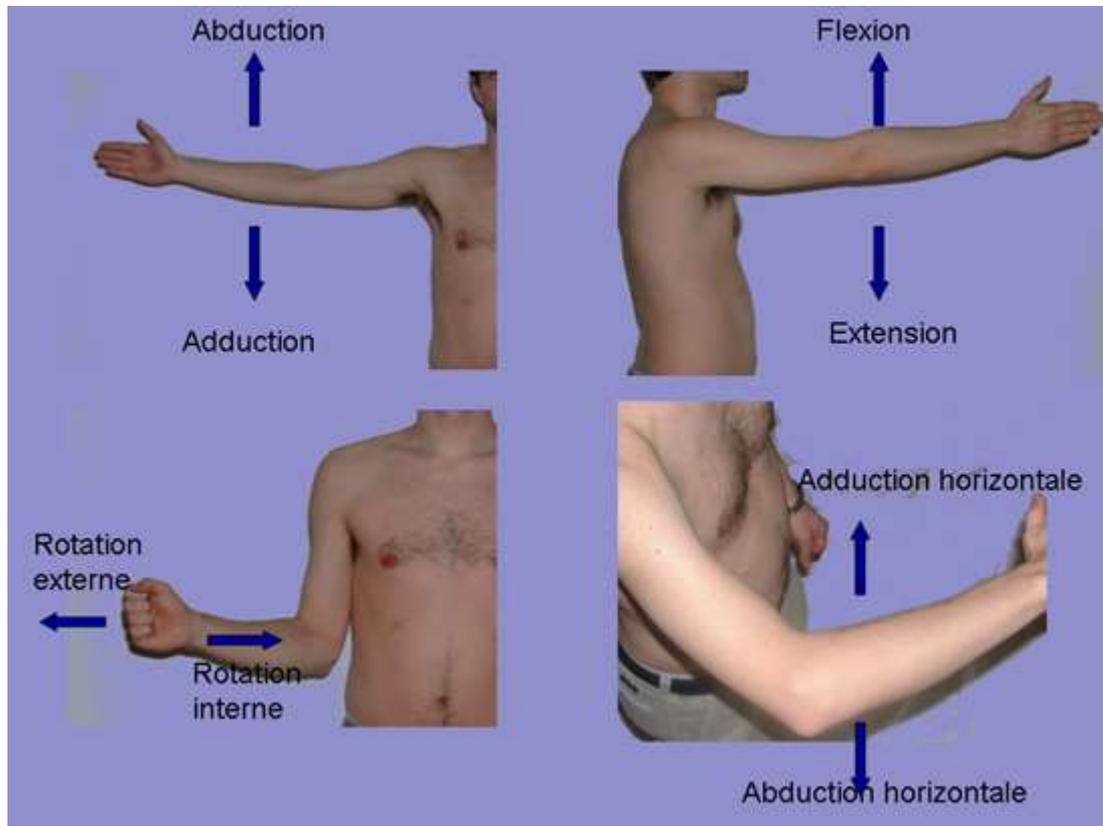
Supination

Position neutre

Pronation







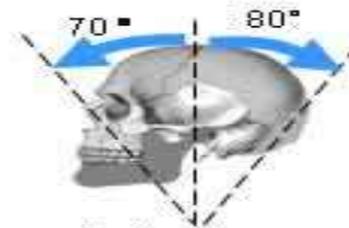
Mouvements de la tête



Inclinaison latérale
très faible



Rotation
(Signe du non)

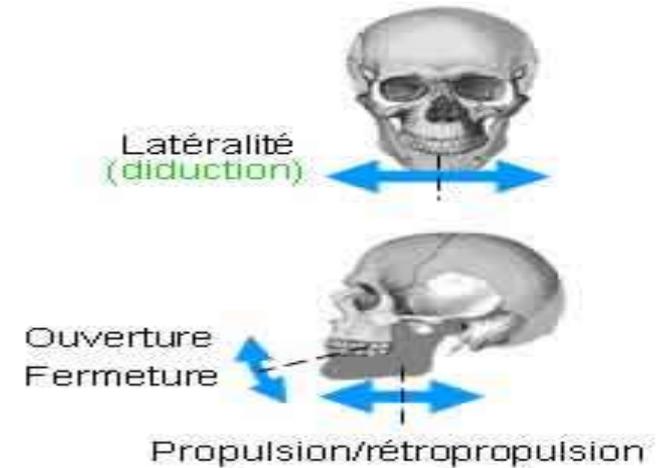
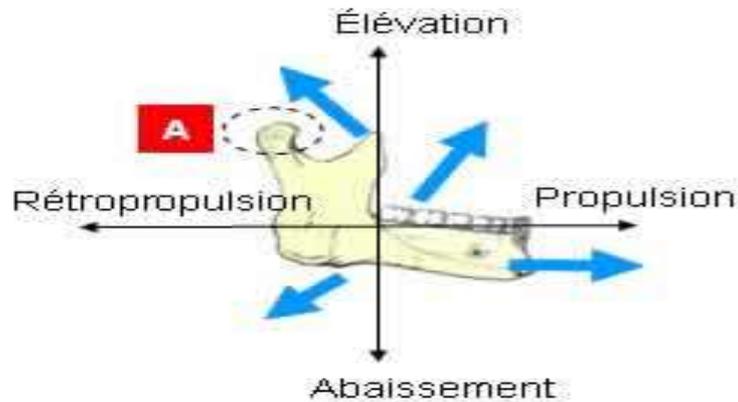


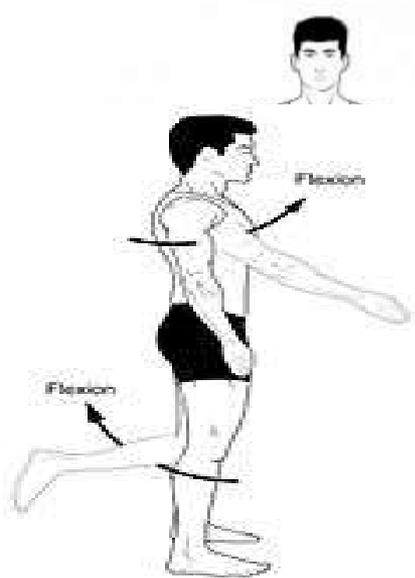
Inclinaisons



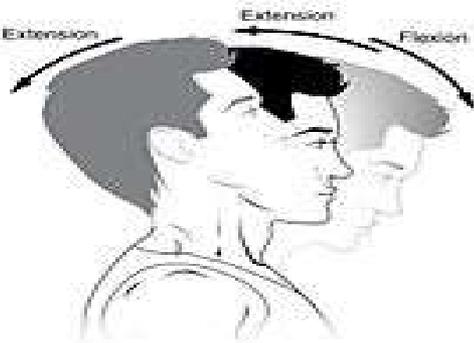
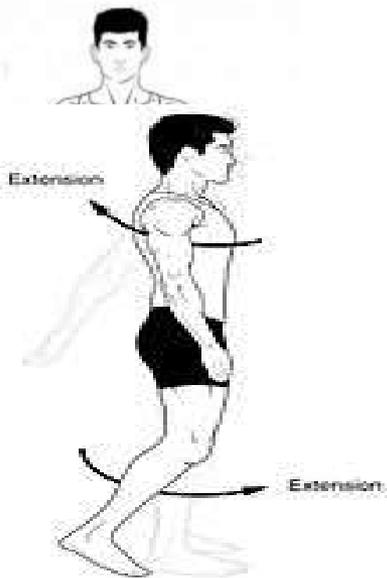
Flexion homolatérale
(Signe du « Oui »)

Mouvements de l'articulation temporo mandibulaire (ATM)





(a) and (b) Angular movements: flexion and extension at the shoulder and knees.



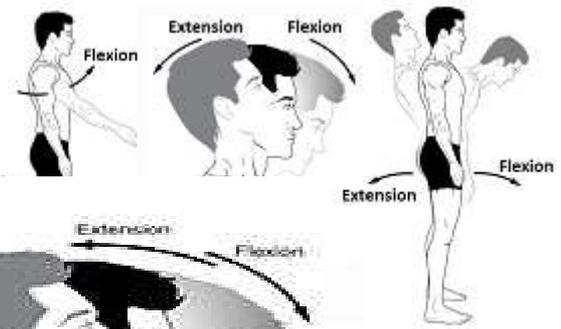
(c) Angular movements: flexion and extension of the neck.



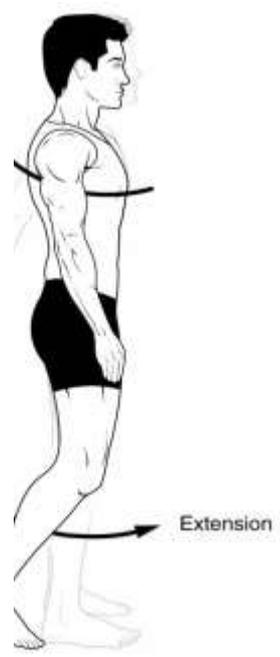
(d) Angular movements: flexion and extension of the vertebral column.



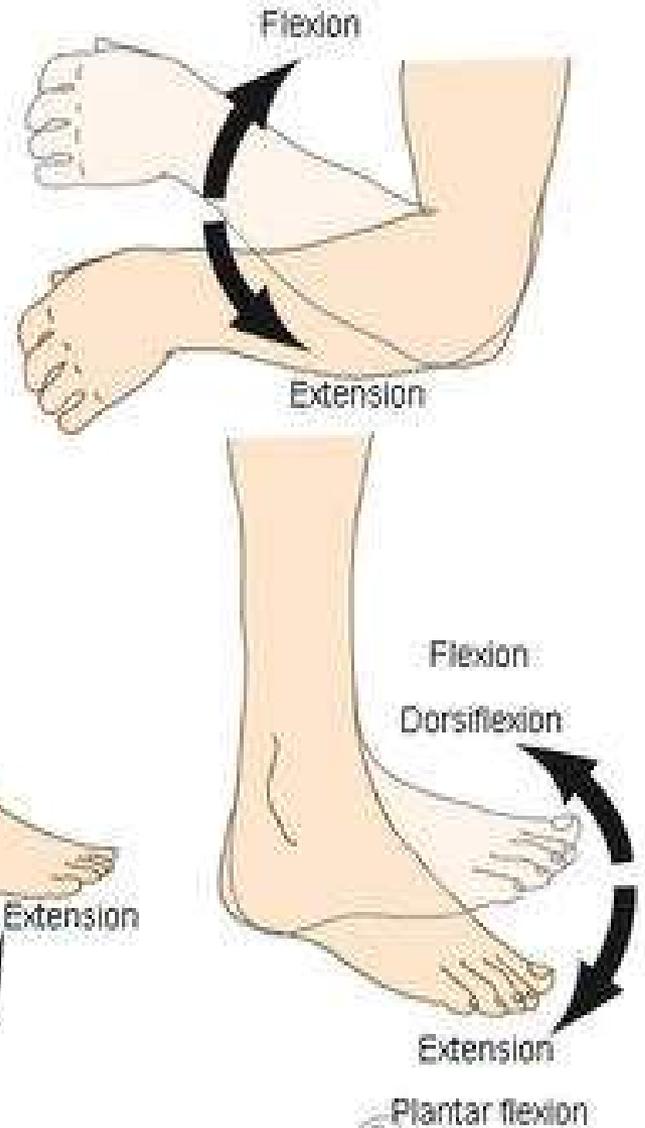
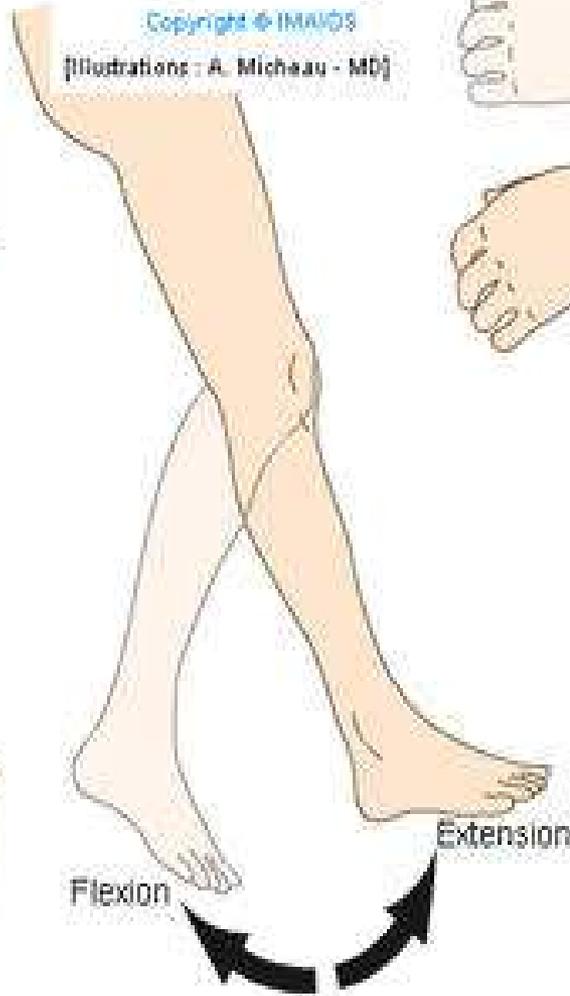
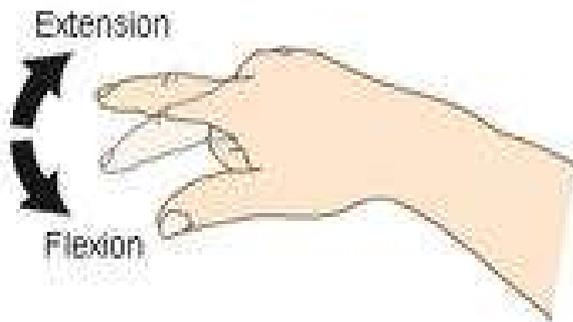
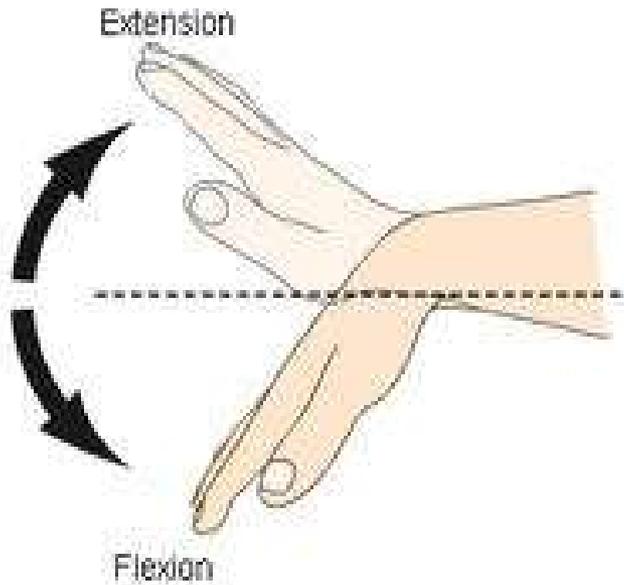
(e) Angular movements: abduction, adduction, and circumduction of the upper limb at the shoulder.



(f) Rotation of the head, neck, and lower limb.

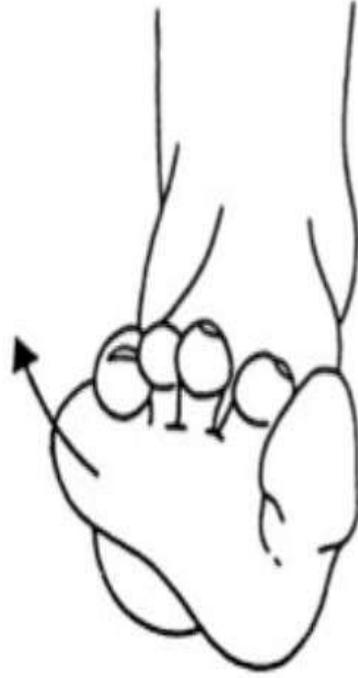


Extension

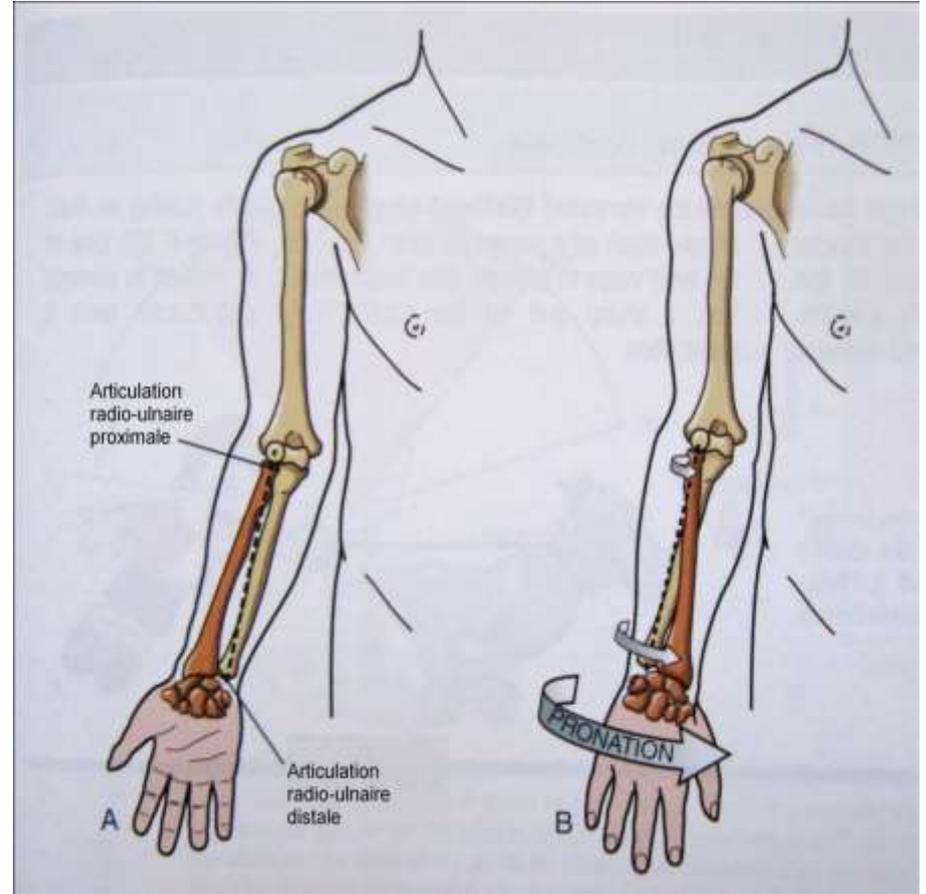


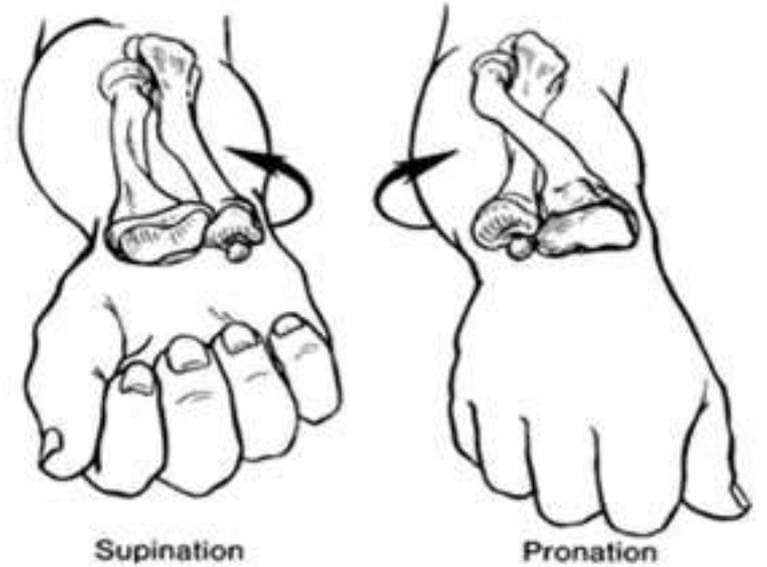


Supination



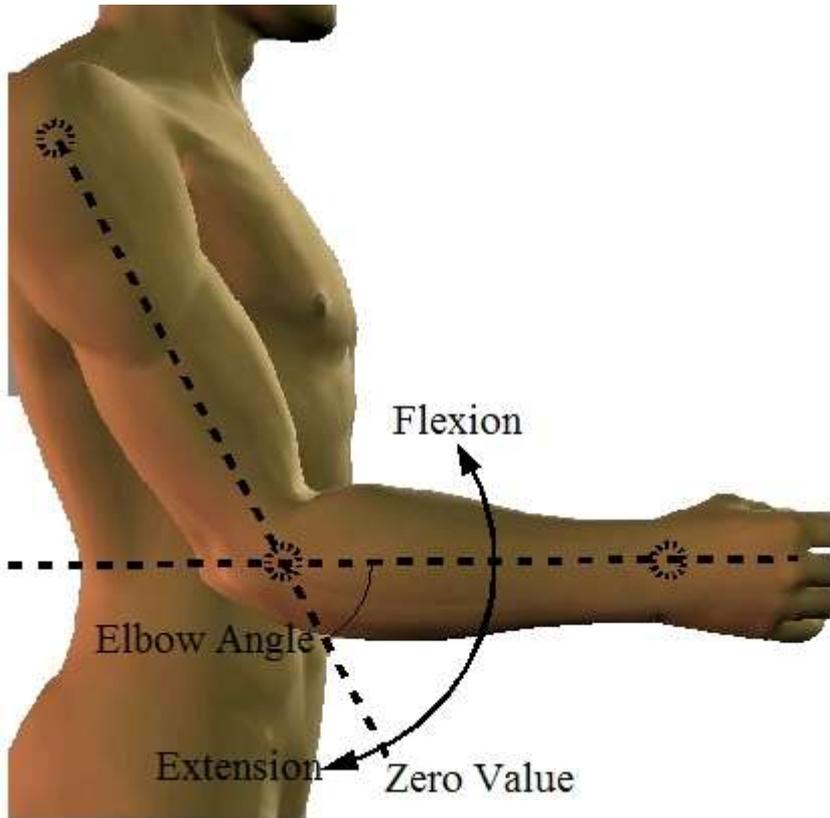
Pronation





Supination

Pronation

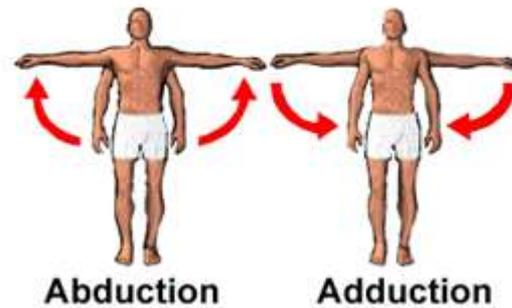


Flexion

Elbow Angle

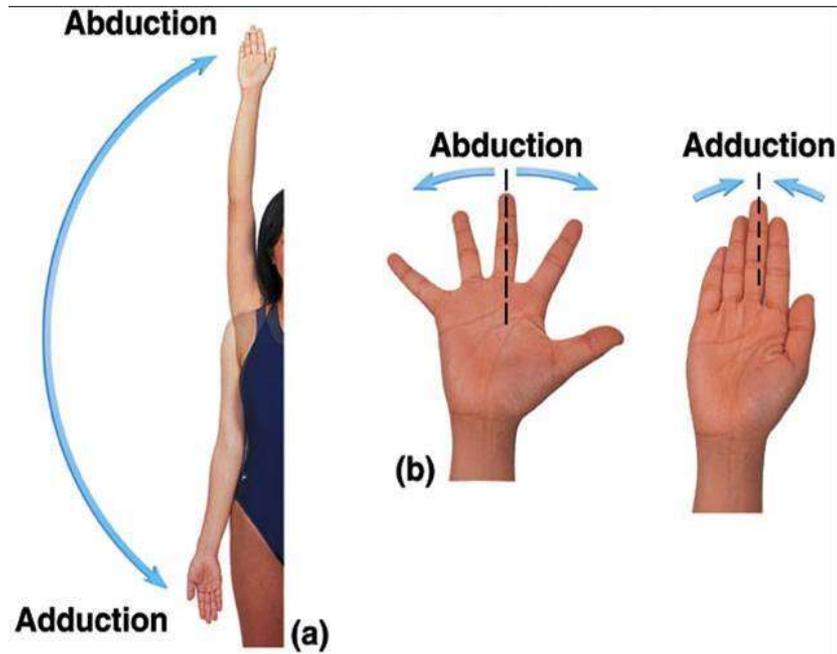
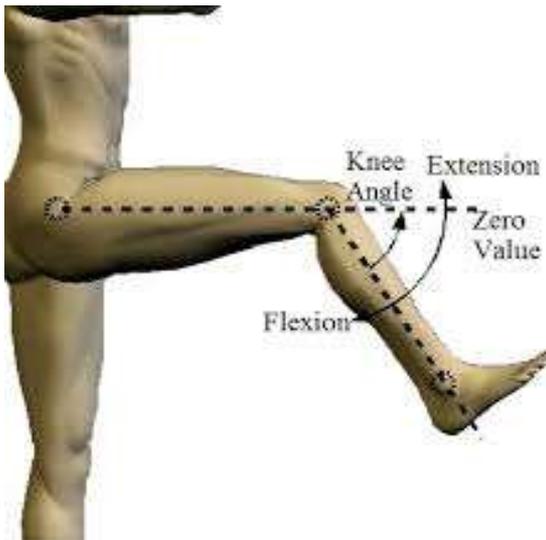
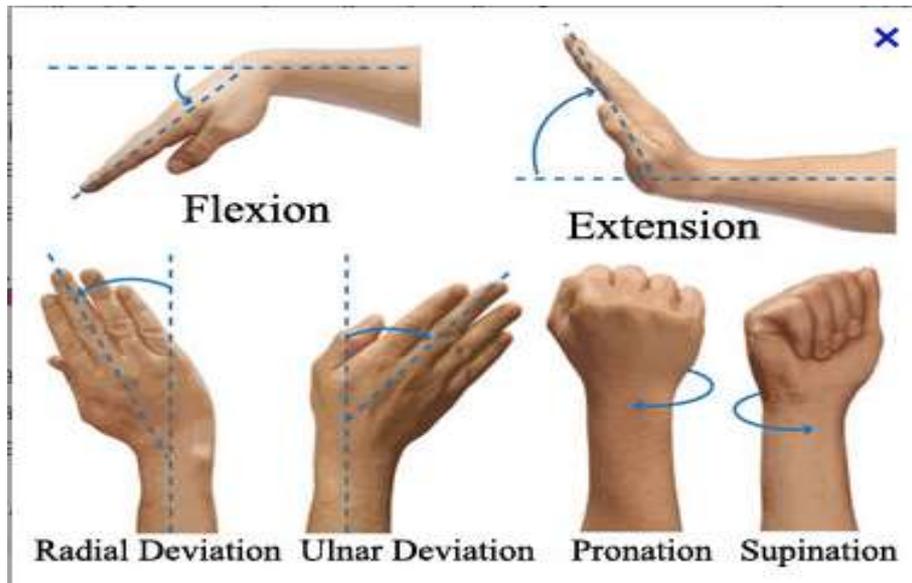
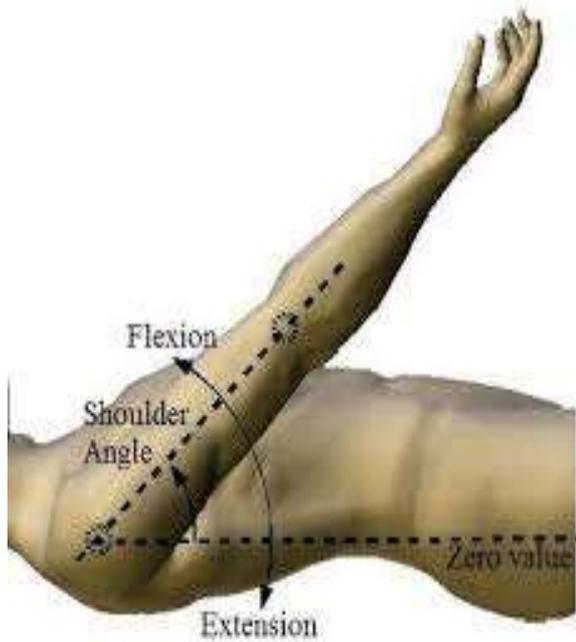
Extension

Zero Value

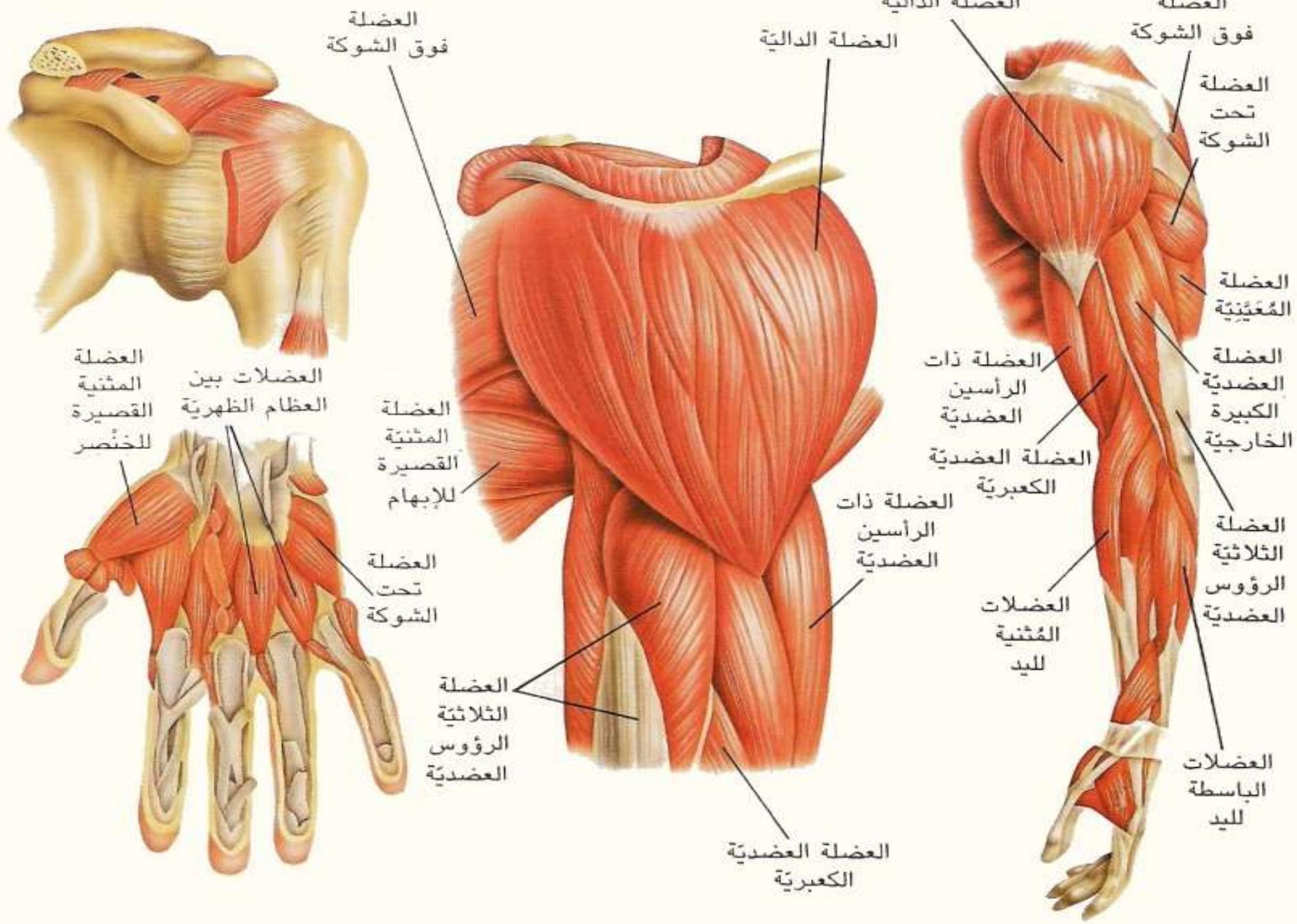


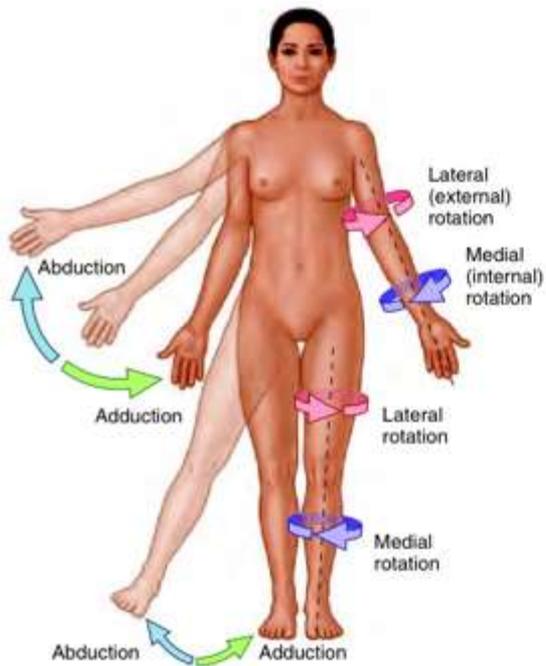
Abduction

Adduction



مفصل الكتف

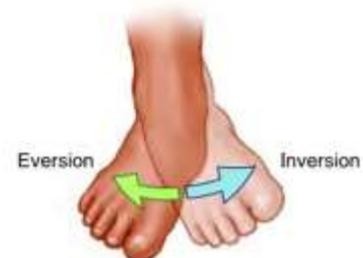




(G) Abduction and adduction of right limbs and rotation of left limbs at glenohumeral and hip joints, respectively

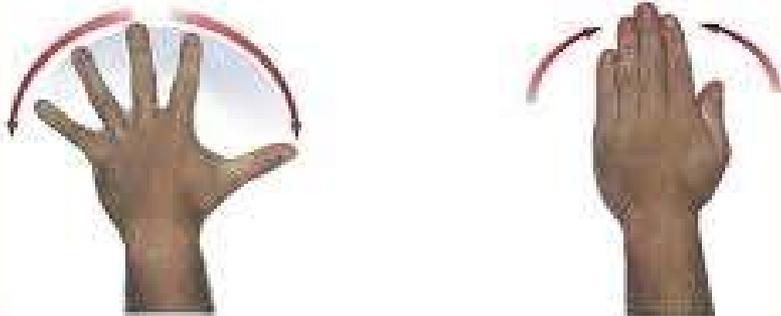


(H) Circumduction (circular movement) of lower limb at hip joint



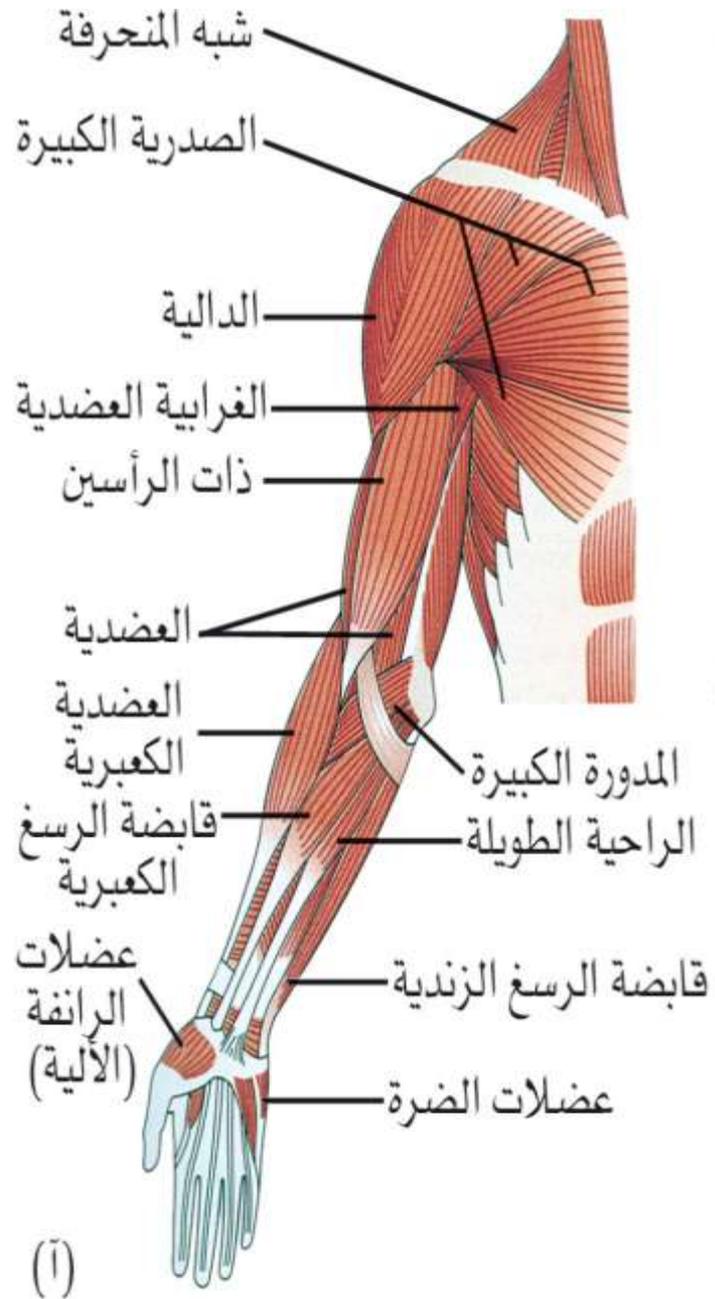
(I) Inversion and eversion of foot at subtalar and transverse tarsal joints

Abduction & Adduction

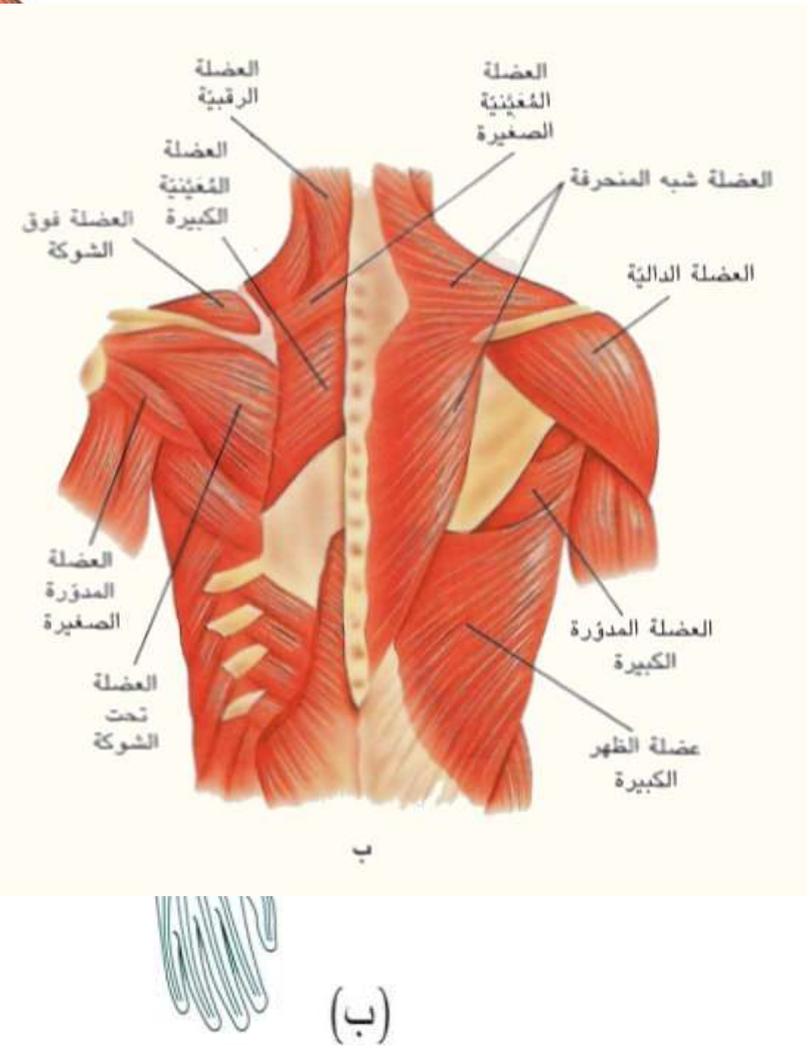
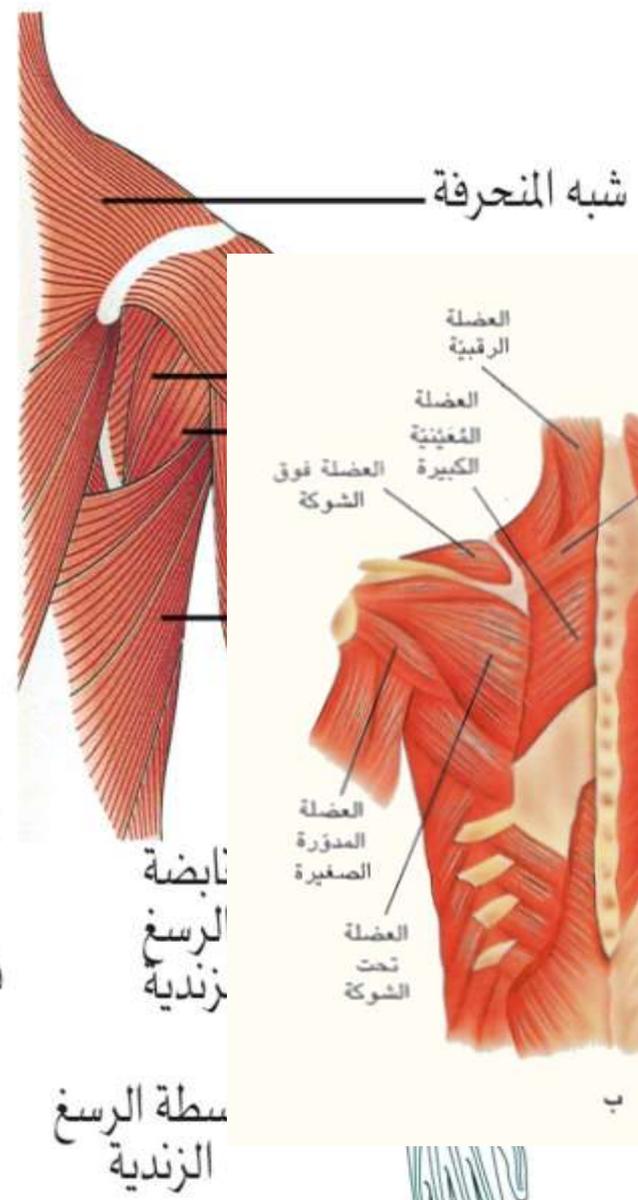


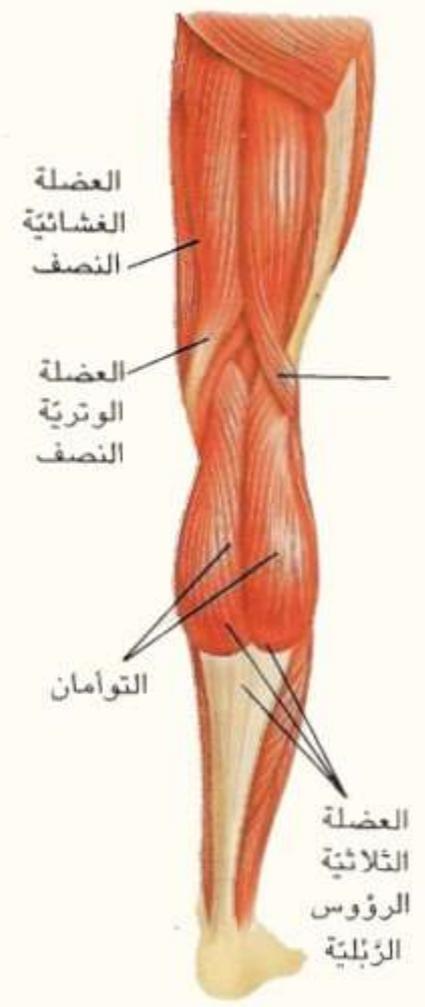
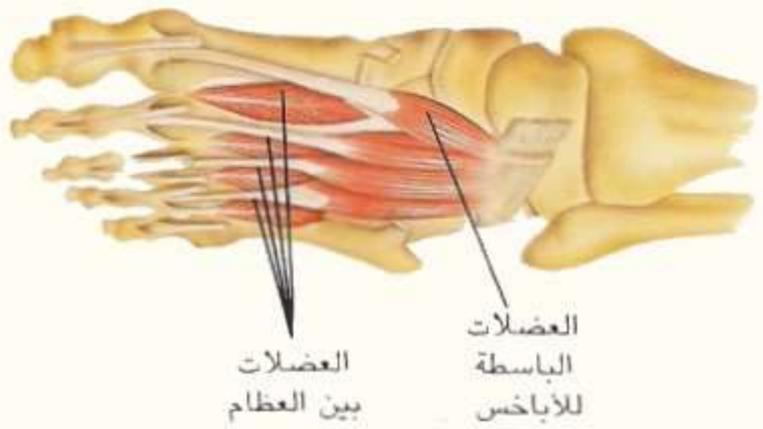
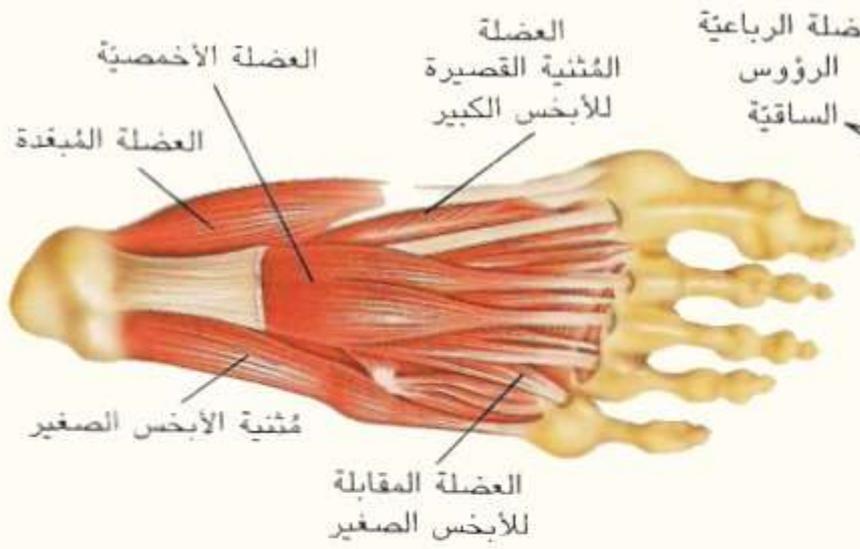
- Abduction is spreading the fingers away from the midline (middle finger)
- Adduction is movement is returning the fingers to the anatomical position

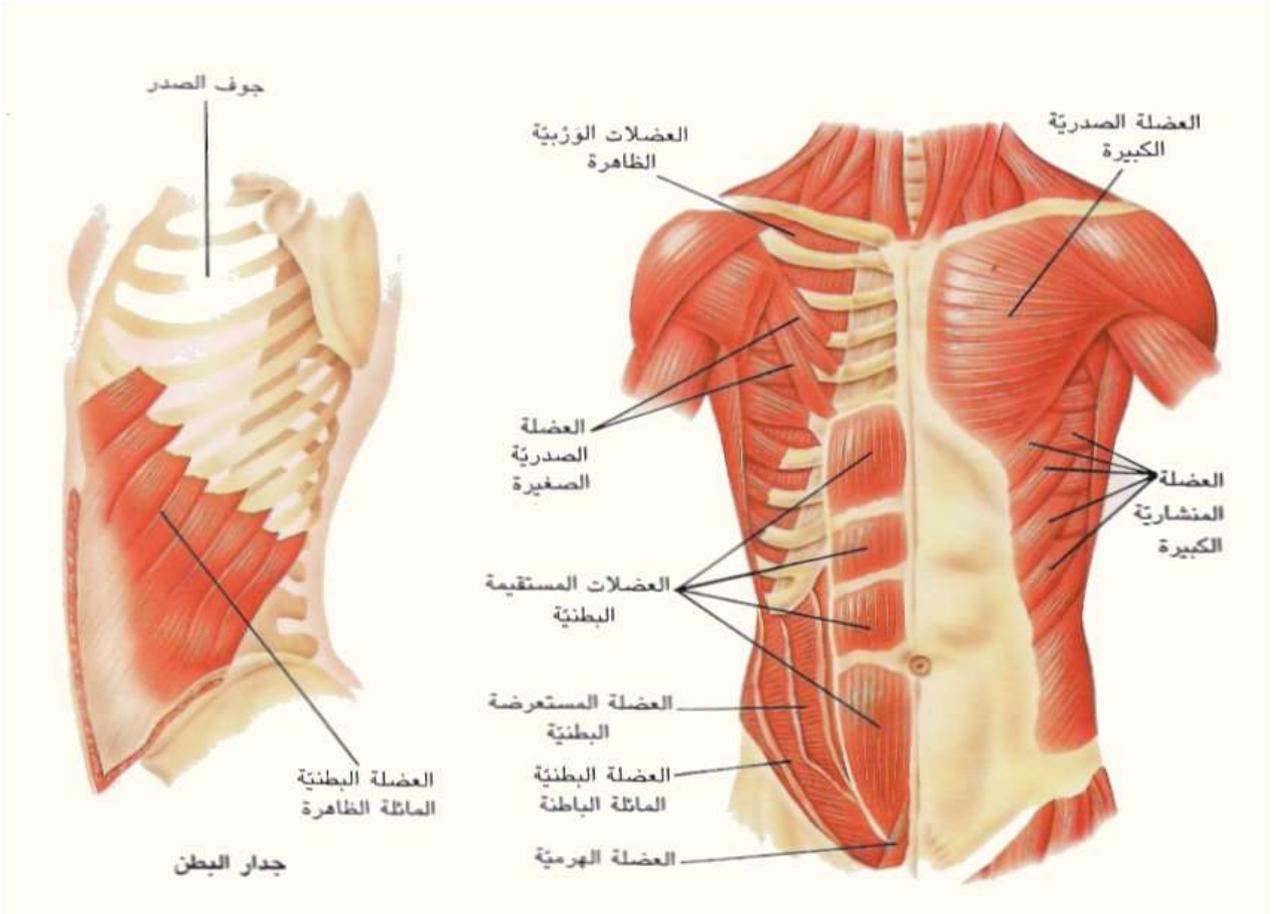


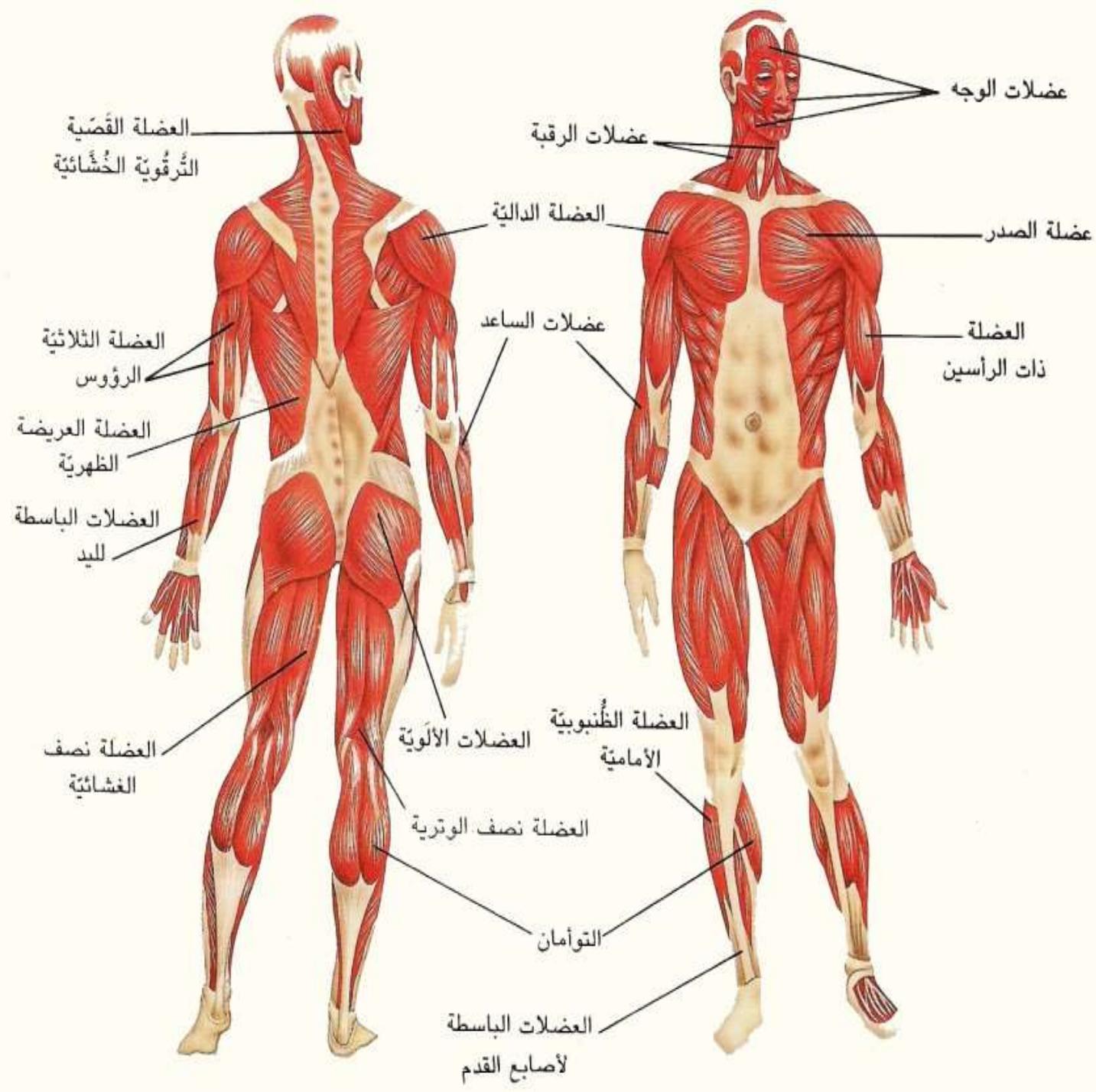


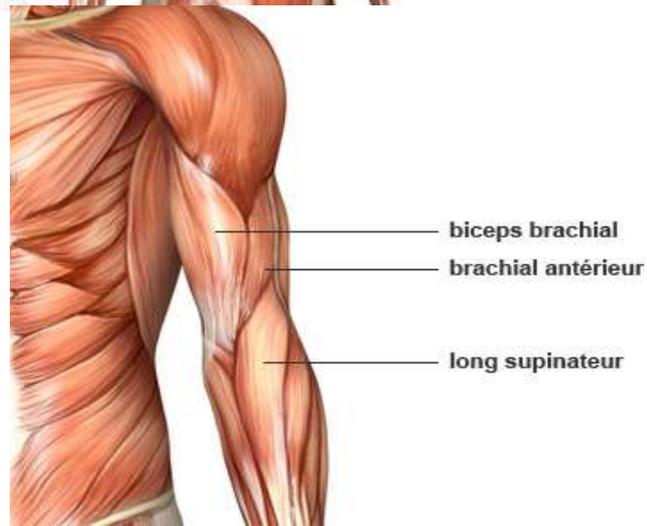
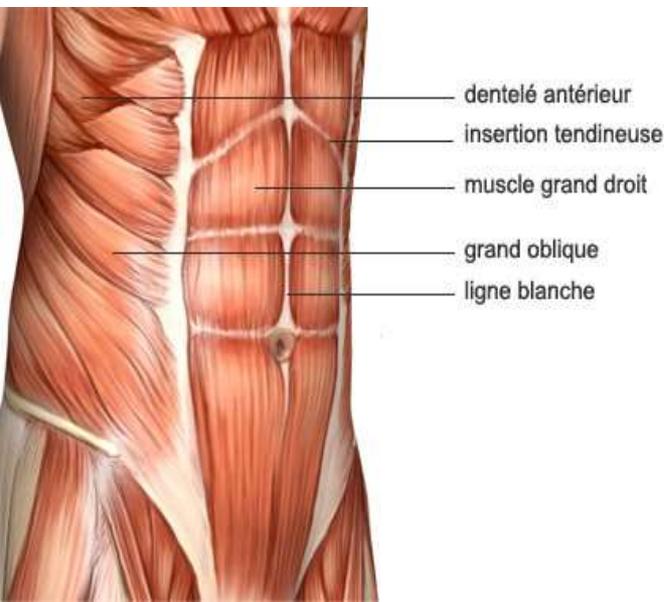
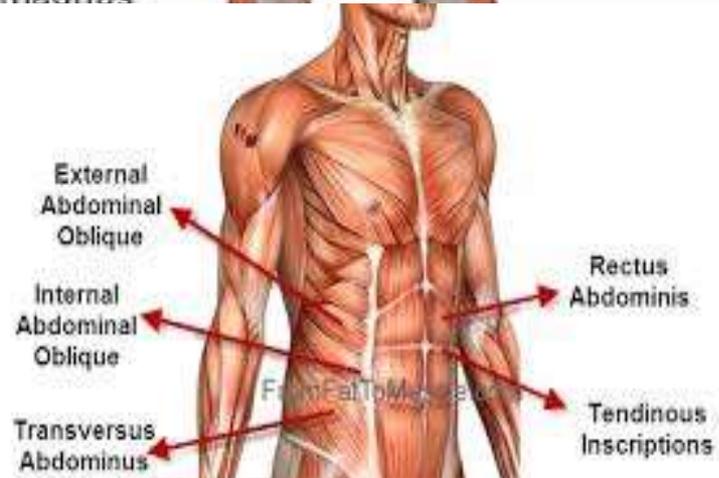
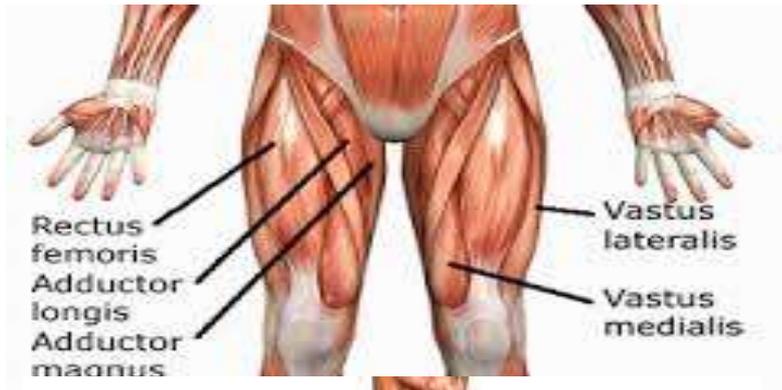
(أ)

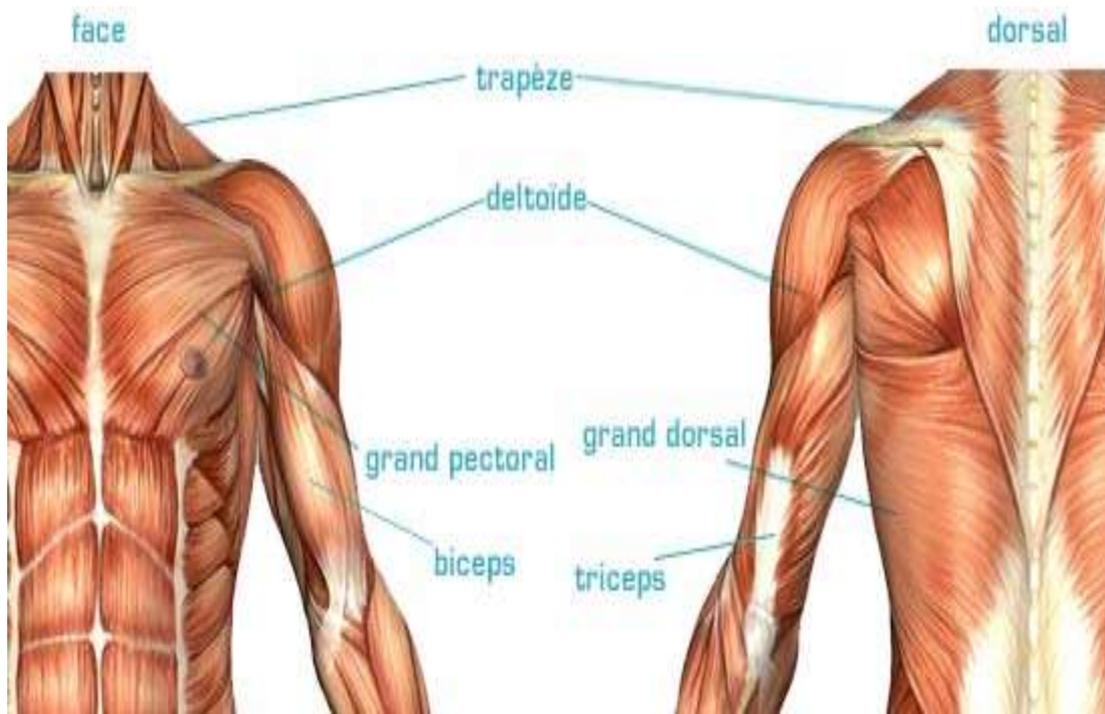


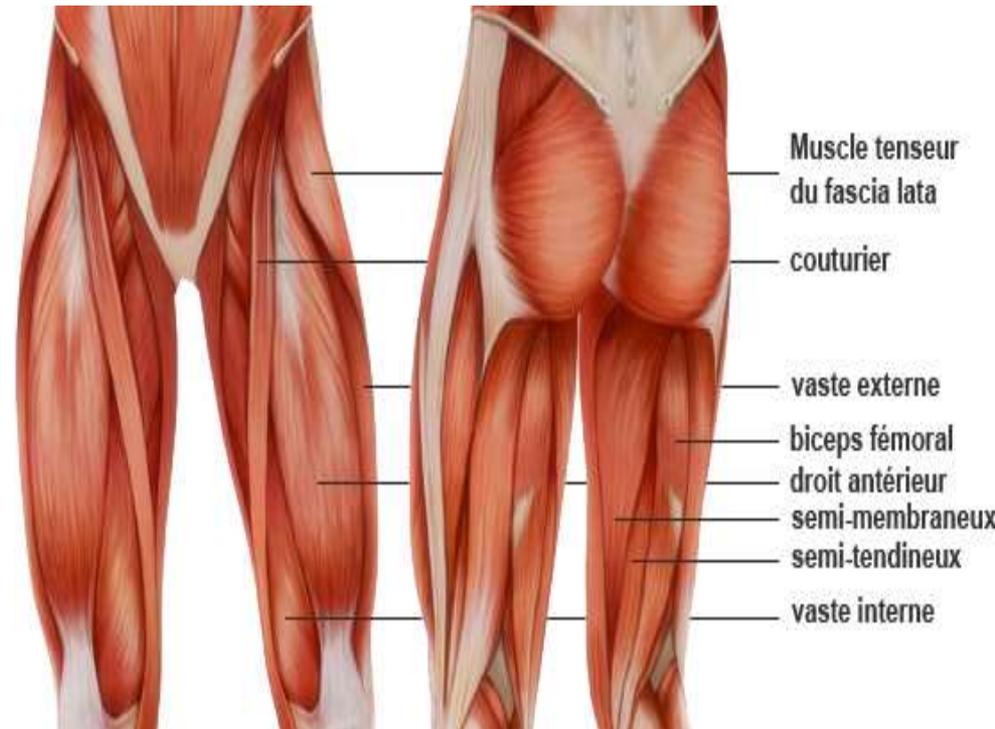
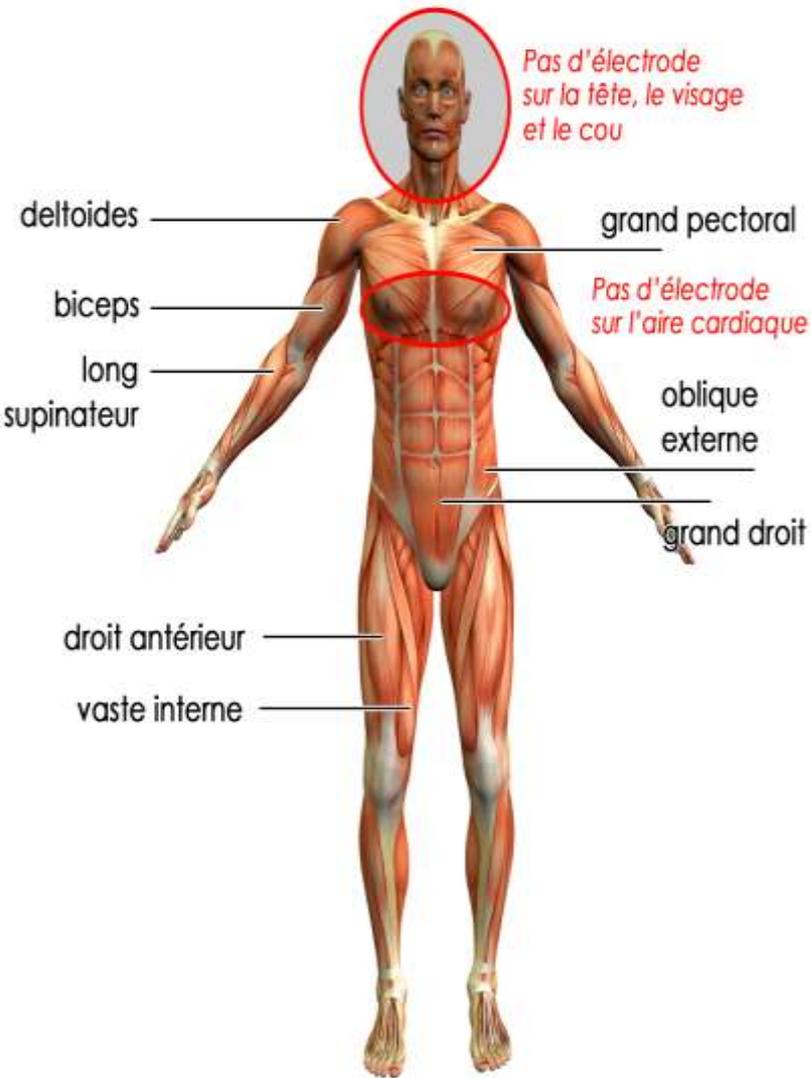


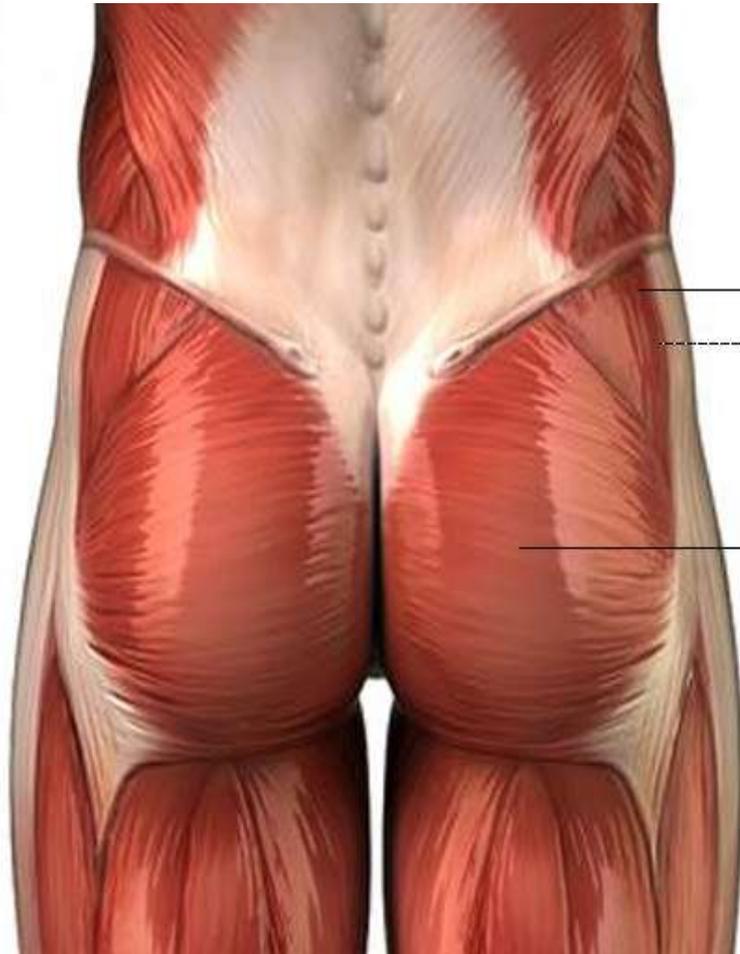








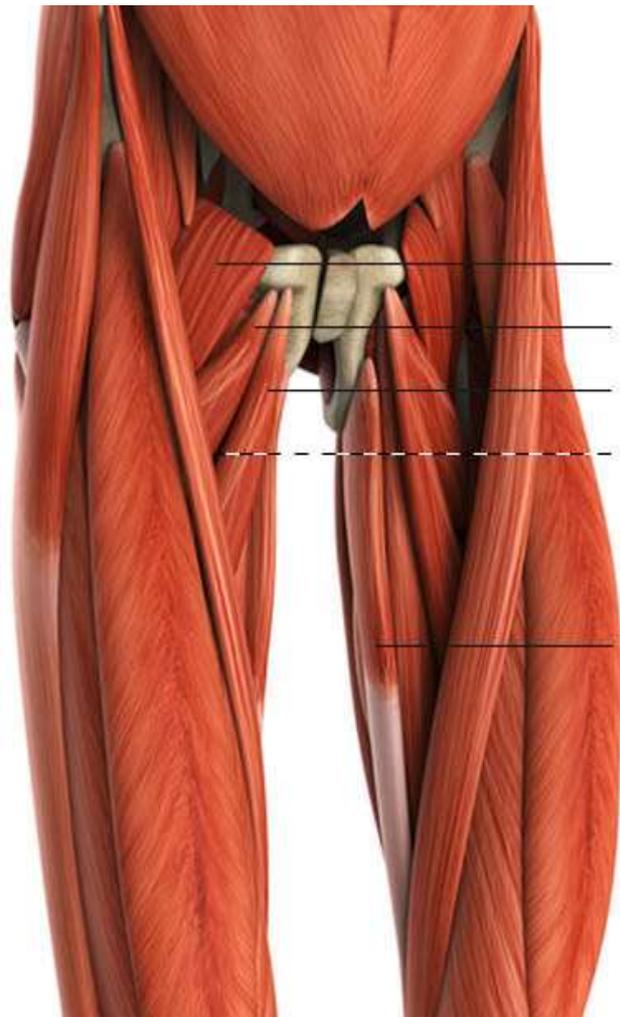




Moyen fessier

**Petit fessier (mus-
cle profond)**

Grand fessier



Pectiné

Petit adducteur

Moyen adducteur

**Grand adducteur
(muscle profond)**

Droit interne (gracile)