



解剖學

- 肌肉系統 (二) -

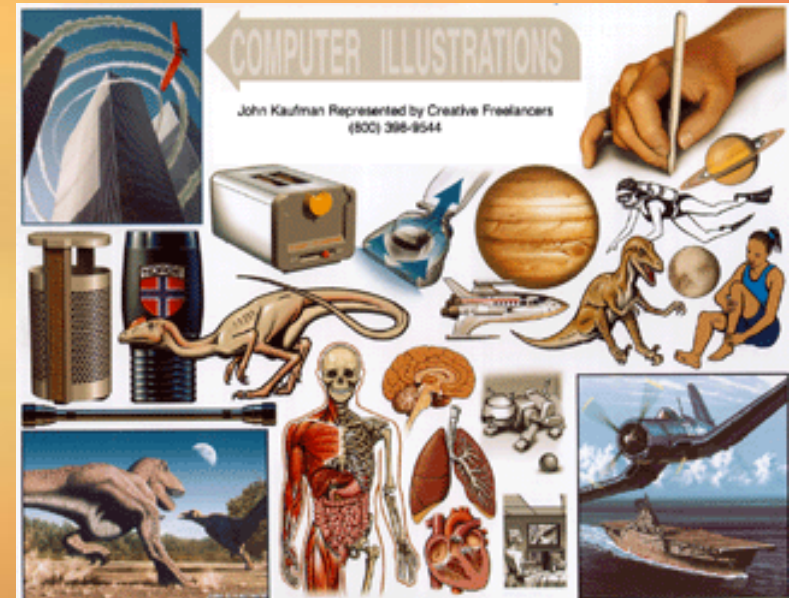
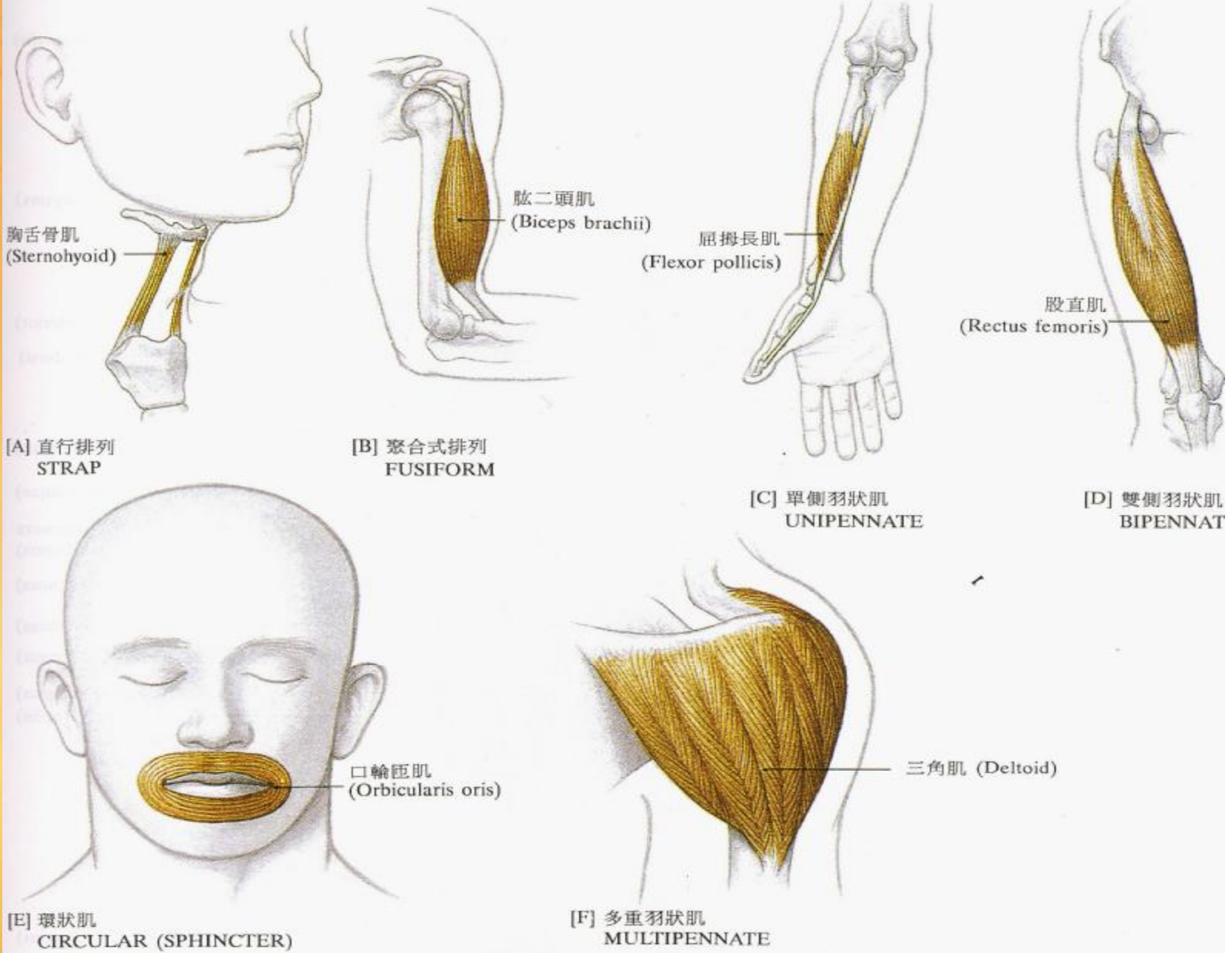


圖 11.3 肌肉的結構

[A] 直行排列的肌束，如胸骨舌骨肌。 [B] 聚合式的肌束，如肱二頭肌。 [C] 單側羽狀肌，如屈拇長肌。 [D] 雙側羽狀肌，如股直肌。 [E] 環形肌或括約肌，如口輪匝肌。 [F] 多重羽狀肌，如三角肌。



肌束的排列

- 平行
- 會聚式
- 羽毛狀
- 環狀

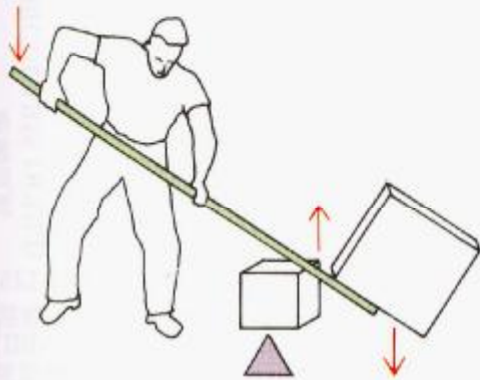
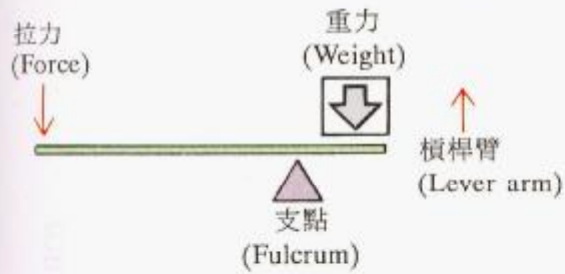
骨骼肌的命名

- 位置
- 形狀
- 相對之大小
- 纖維之方向
- 起端之數目
- 起端及及止端之位置
- 作用

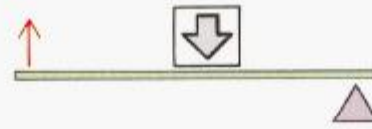


圖 11.5 槓桿的種類

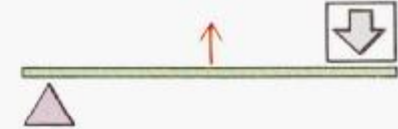
[A] 第一類槓桿，支點介於拉力與重力之間。[B] 第二類槓桿，重力介於拉力與支點之間。[C] 第三類槓桿，拉力介於重力與支點之間，箭頭表示拉力方向與被移動物體重力方向。



[A] 第一類槓桿
FIRST-CLASS LEVER



[B] 第二類槓桿
SECOND-CLASS LEVER



[C] 第三類槓桿
THIRD-CLASS LEVER

顏面表情肌

(Muscle of facial express)

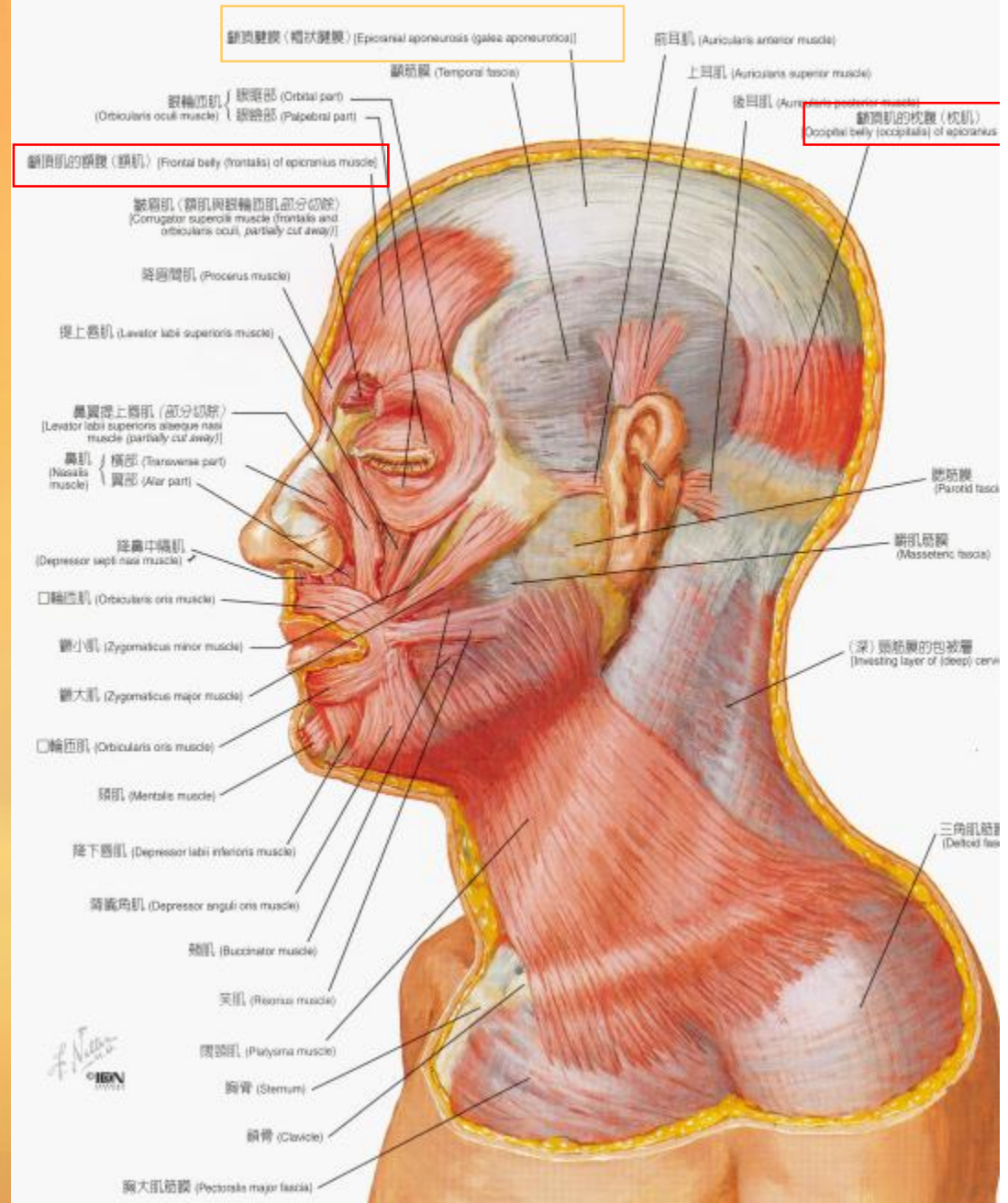
● 顱頂肌 (Epicranius)

額肌 (Frontalis)

枕肌 (Occipitalis)



顏面表情肌：側面觀 (Muscles of Facial Expression : Lateral View)



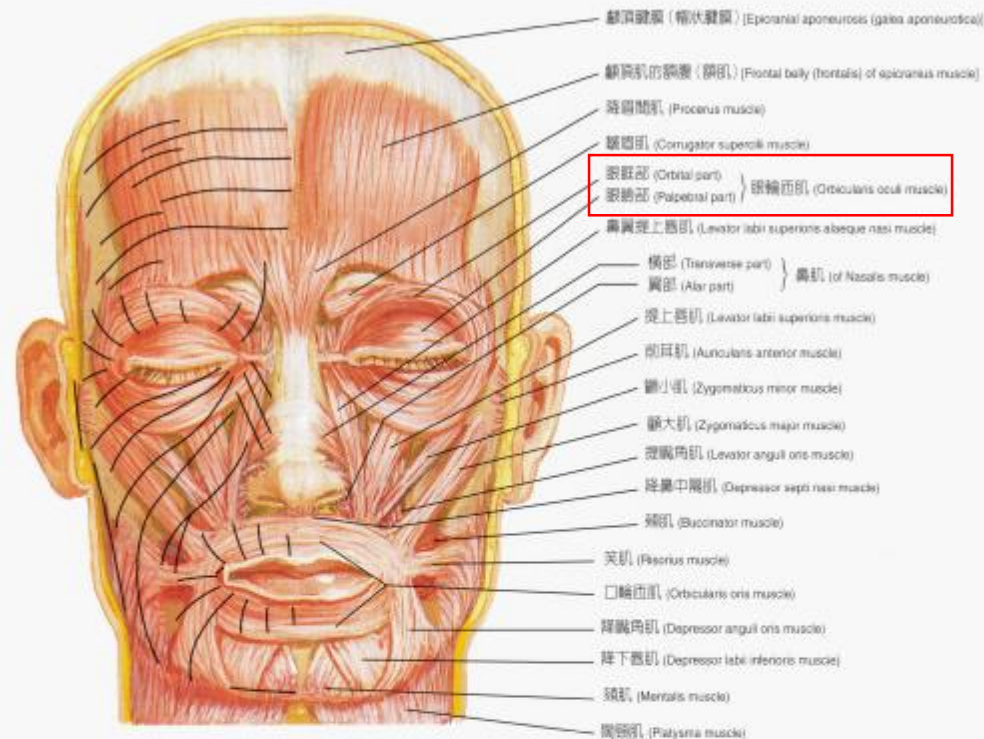
眼輪匝肌 (Orbicularis oculi)

- 起端：額骨及上頷骨
- 止端：眼眶周圍
- 作用：閉上眼瞼

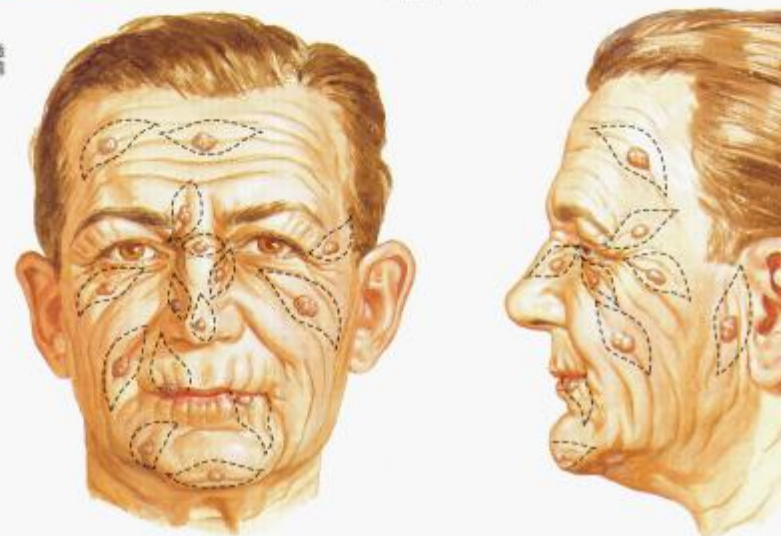


顏面表情肌：前面觀 (Muscles of Facial Expression : Anterior View)

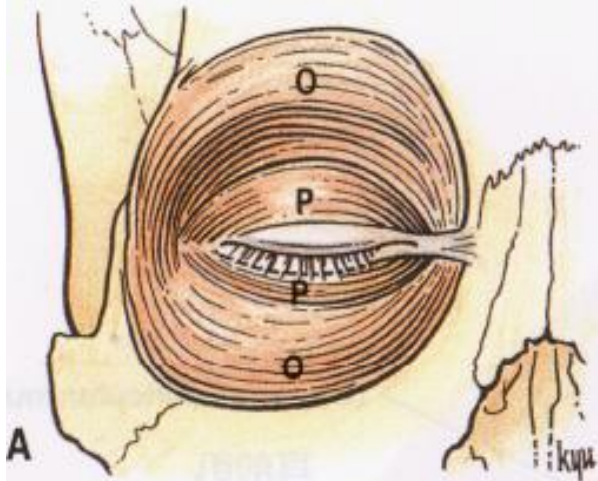
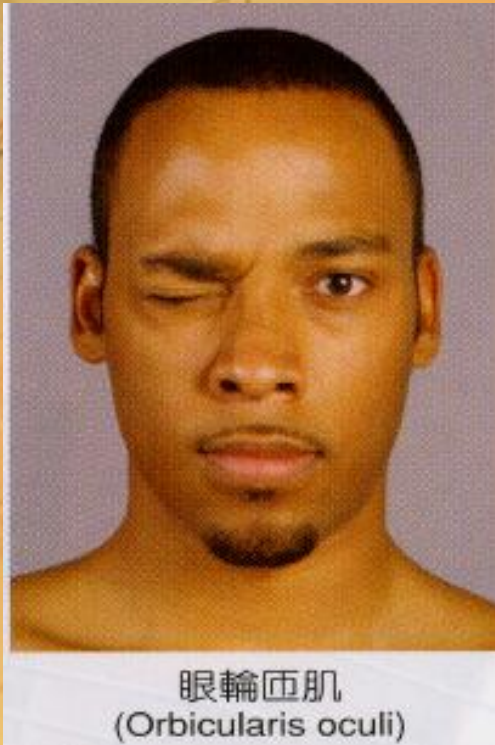
亦見圖片 48



皮膚皺紋線的方向與表情肌的纖維走向垂直。移植皮膚瓣室的時候，切口法與皺紋線的方向一致。



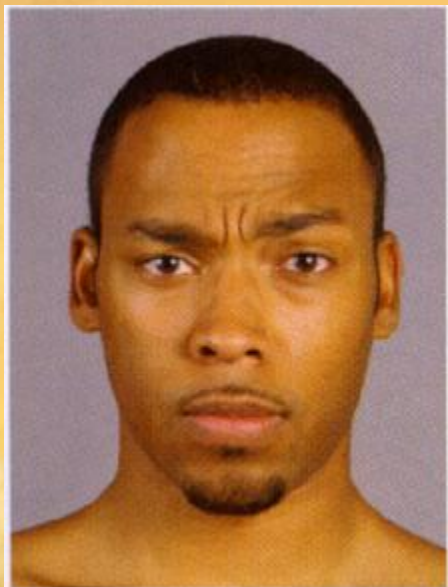
眼輪匝肌 (*Orbicularis oculi*)



皺眉肌

(*Corrugator supercillii*)

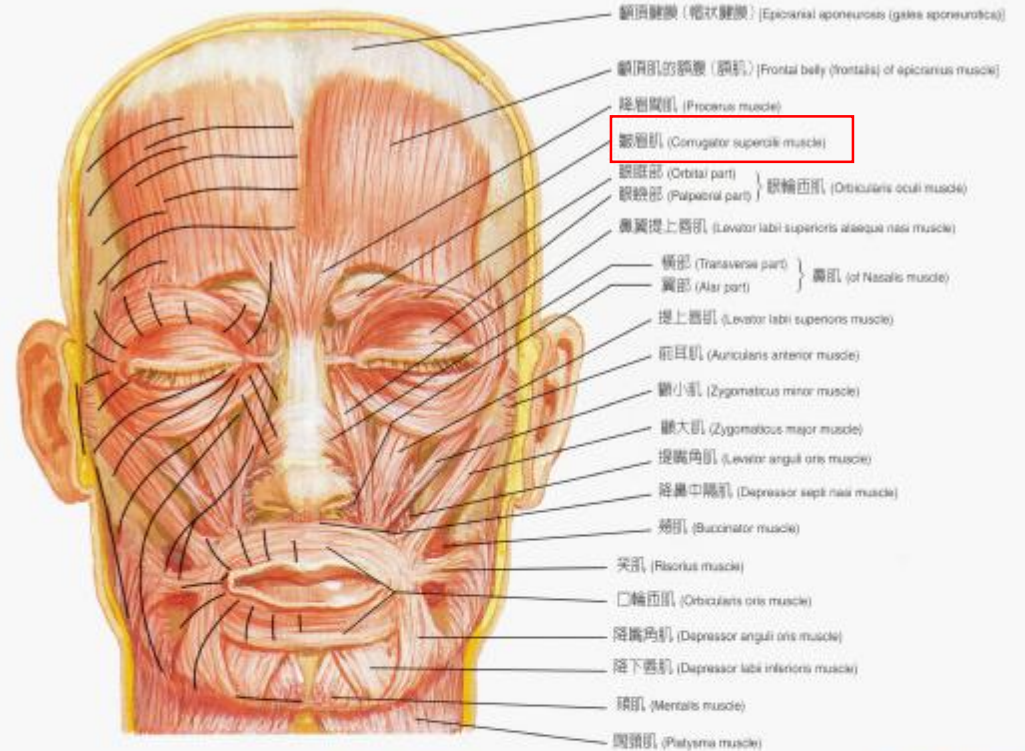
- 起端：額骨眉弓內側
- 止端：眉毛處之皮膚
- 作用：拉眉毛向內側



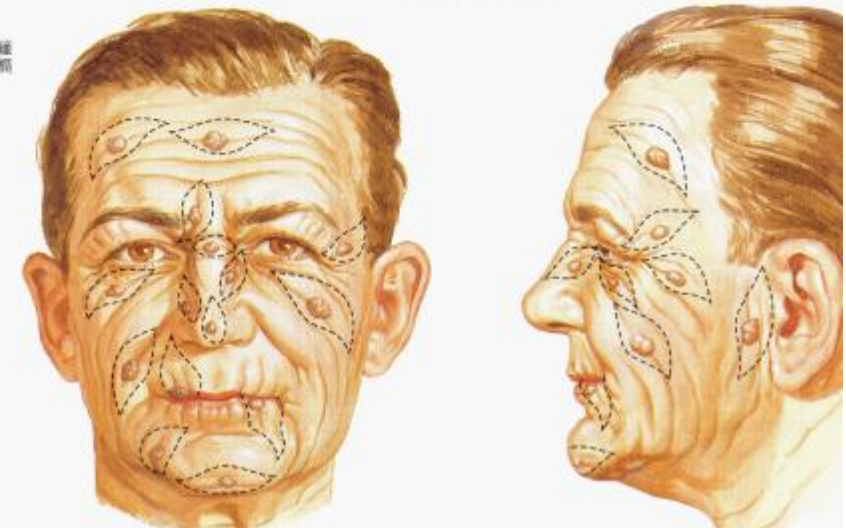
皺眉肌
(*Corrugator supercillii*)

顏面表情肌：前面觀 (Muscles of Facial Expression : Anterior View)

亦見圖片 48



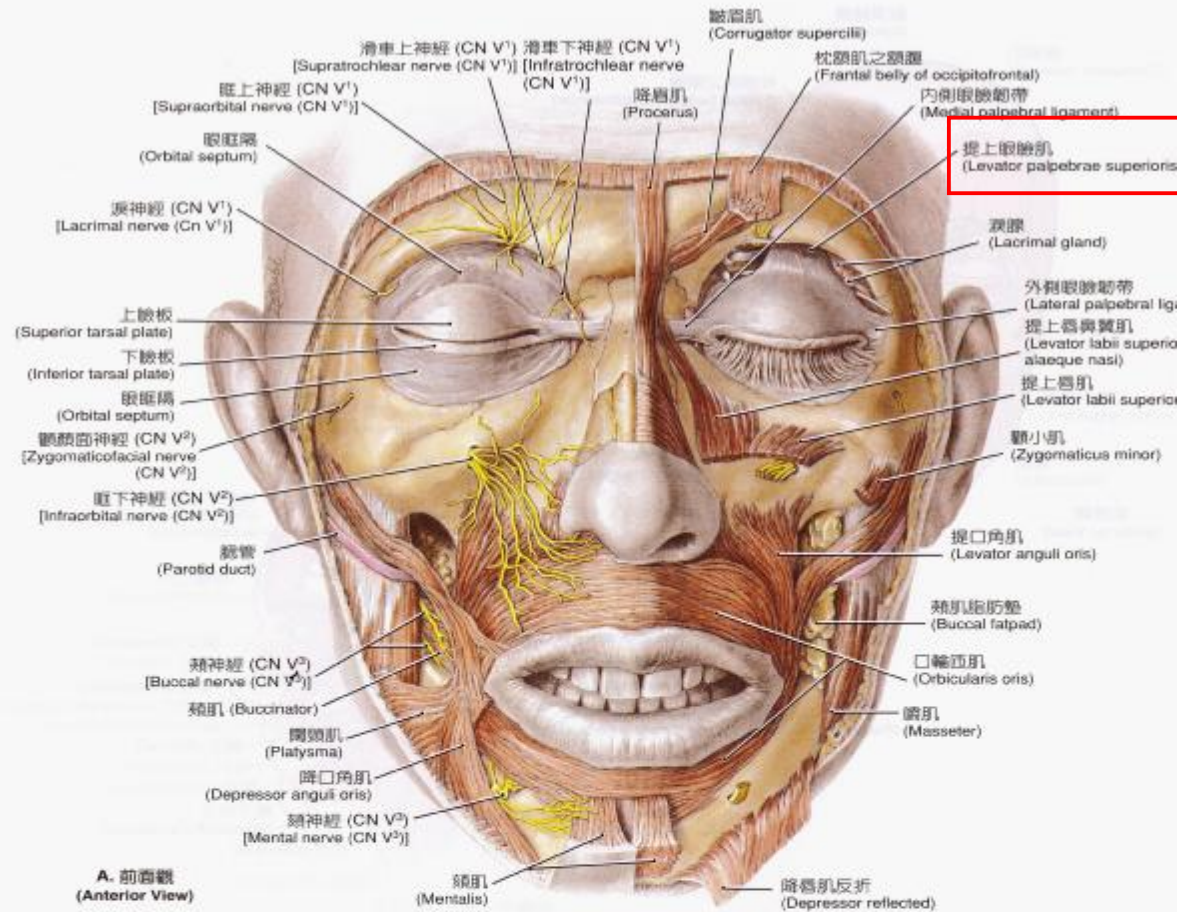
皮膚皺紋線的方向與表情肌的纖維走向垂直。移除皮膚皺紋的輪廓形成法與皺紋線的方向一致。



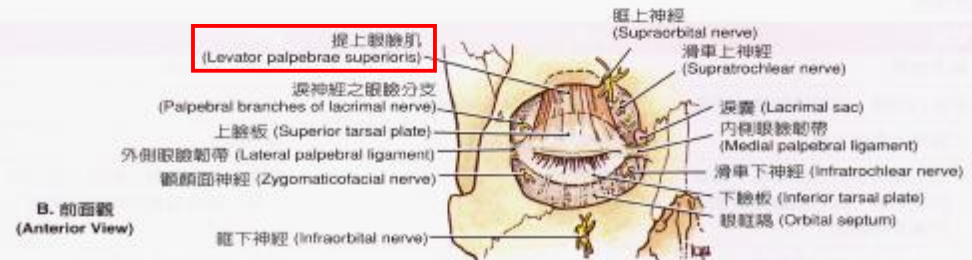
提上眼瞼肌

(*Levator palpebrae superioris*)

- 起端：蝶骨小翼
- 止端：上眼瞼之皮膚
- 作用：眼瞼上舉



A. 前面觀 (Anterior View)

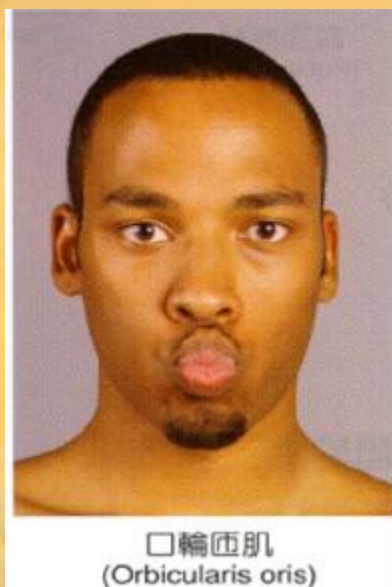


B. 前面觀 (Anterior View)

7.10 三叉神經之皮分支，臉部表情肌及眼瞼

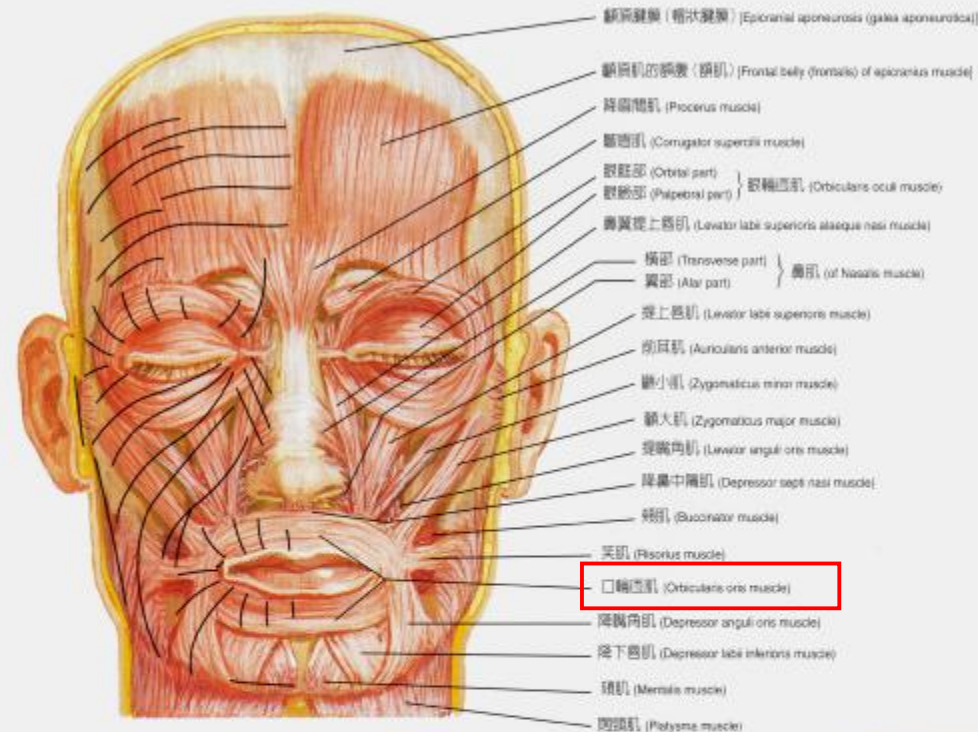
口輪匝肌 (Orbicularis oris)

- 起端：圍繞口之肌纖維
- 止端：嘴角之皮膚
- 作用：吹口哨、吸允、親吻時噘嘴

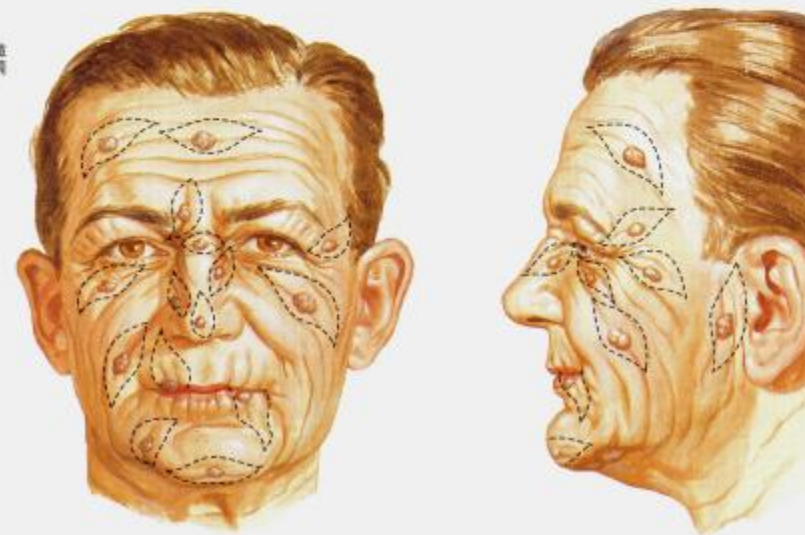


顏面表情肌：前面觀 (Muscles of Facial Expression : Anterior View)

亦見圖片 48



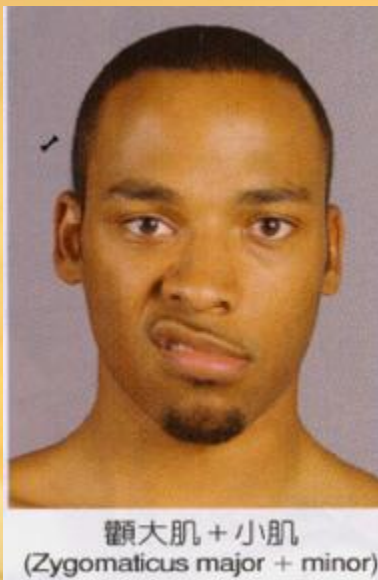
皮膚皺紋的走向與表情肌的纖維走向相連。移除皮膚皺紋的橢圓形切法與皺紋的方向一致。



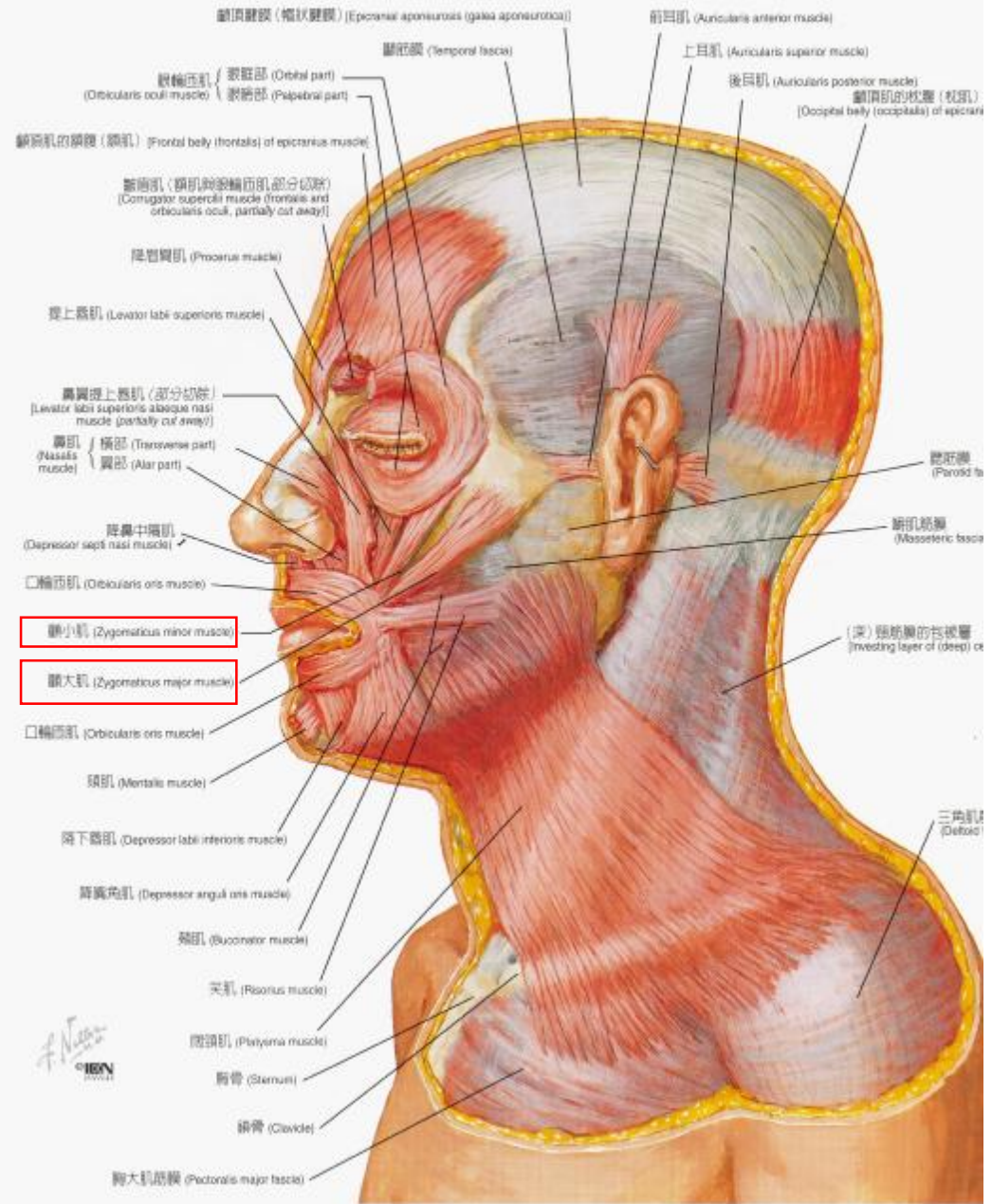
顴大(小)肌

(*Zygomat�icus major, minor*)

- 起端：顴骨
- 止端：嘴角及口輪匝肌上皮膚
- 作用：發笑時使嘴角向上外拉



顏面表情肌：側面觀 (*Muscles of Facial Expression : Lateral View*)



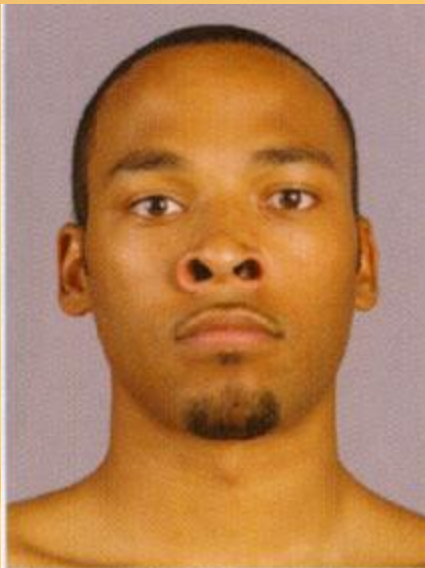
提上唇肌

(*Levator labii superioris*)

●起端：上頷骨額突

●止端：上唇皮膚

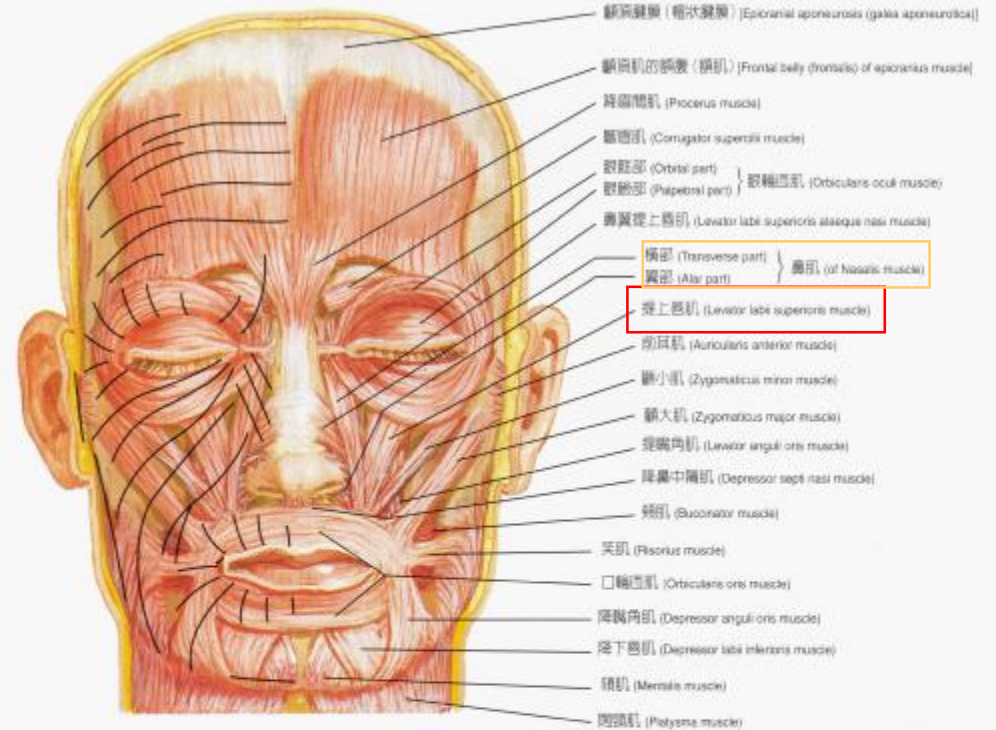
●作用：提唇



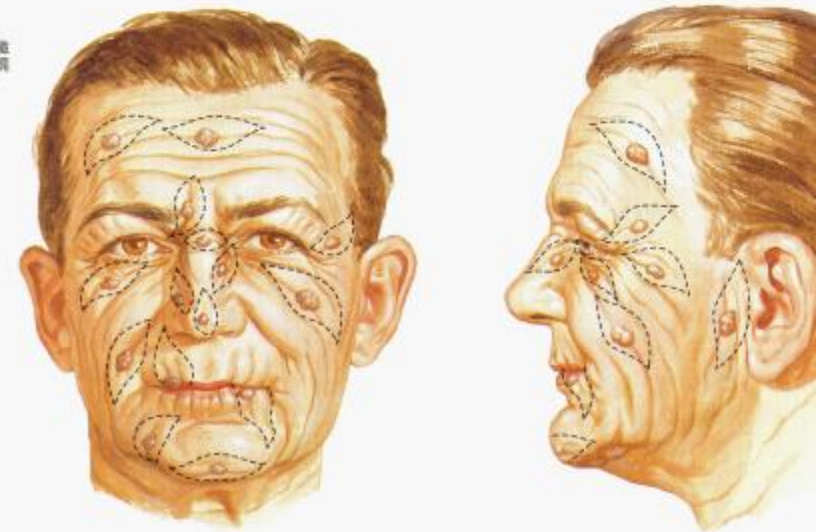
提上唇鼻翼肌 + 鼻肌翼部
(Lev. labii sup. alaeque nasi +
alar part of nasalis)

顏面表情肌：前面觀 (Muscles of Facial Expression : Anterior View)

亦見圖片 48



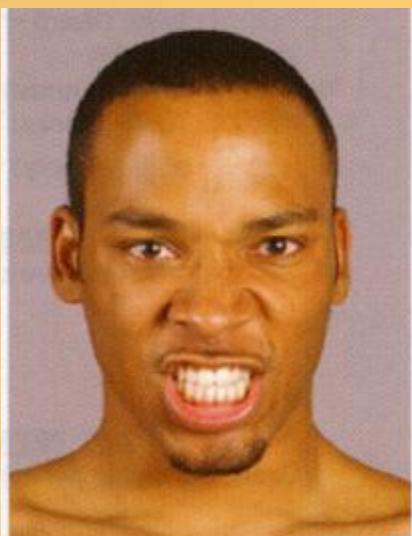
皮膚皺紋的走向與表情肌的纖維走向相連。移形皮膚皺褶的情況圖形切法與皺紋的方向一致



降下唇肌

(*Depressor labii inferioris*)

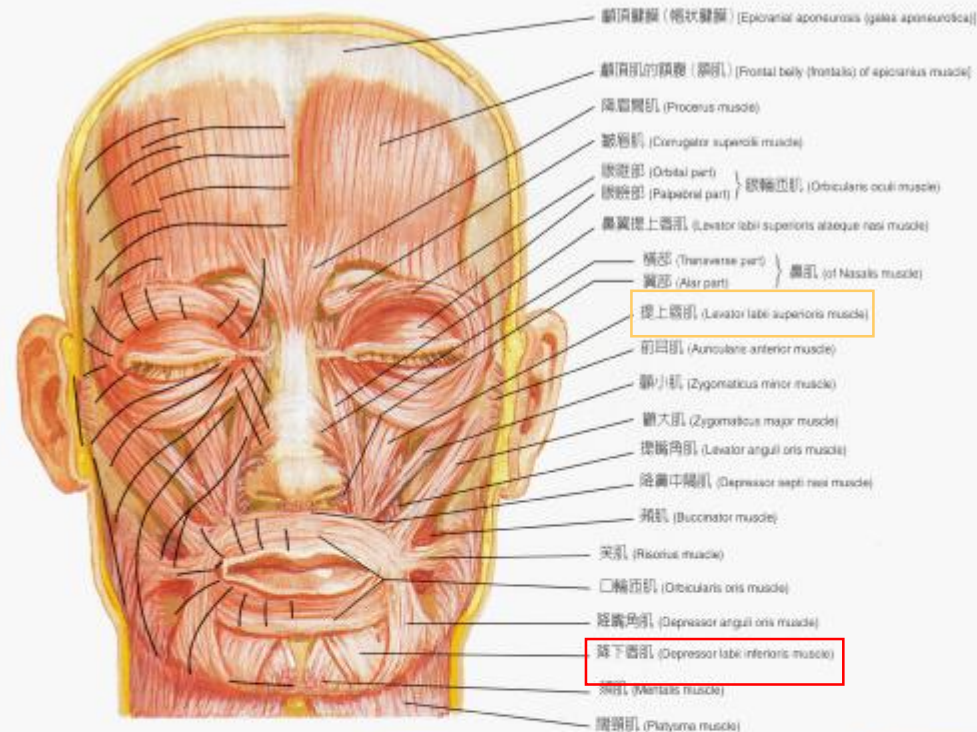
- 起端：下頷骨
- 止端：下唇之皮膚
- 作用：下唇之下壓



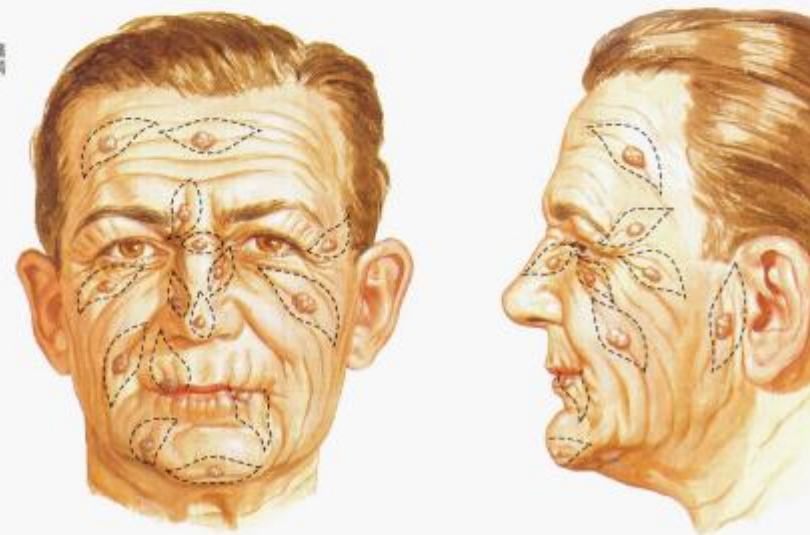
提上唇肌 + 降下唇肌
(Levator labii sup. + depressor labii)

顏面表情肌：前面觀 (Muscles of Facial Expression : Anterior View)

亦見圖片 48

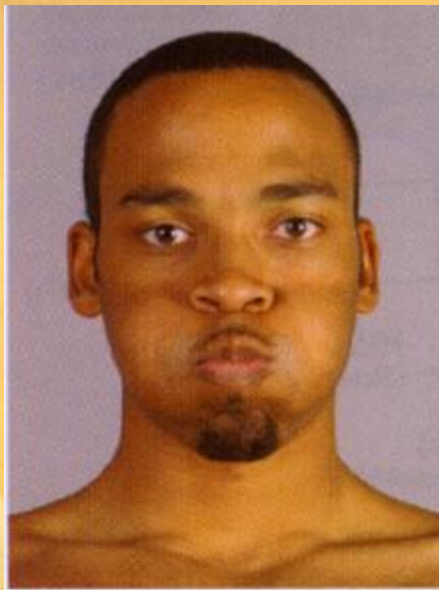


皮膚皺紋的走向與表情肌的纖維走向垂直。移除皮膚皺紋的橢圓形切法與皺紋的方向一致。



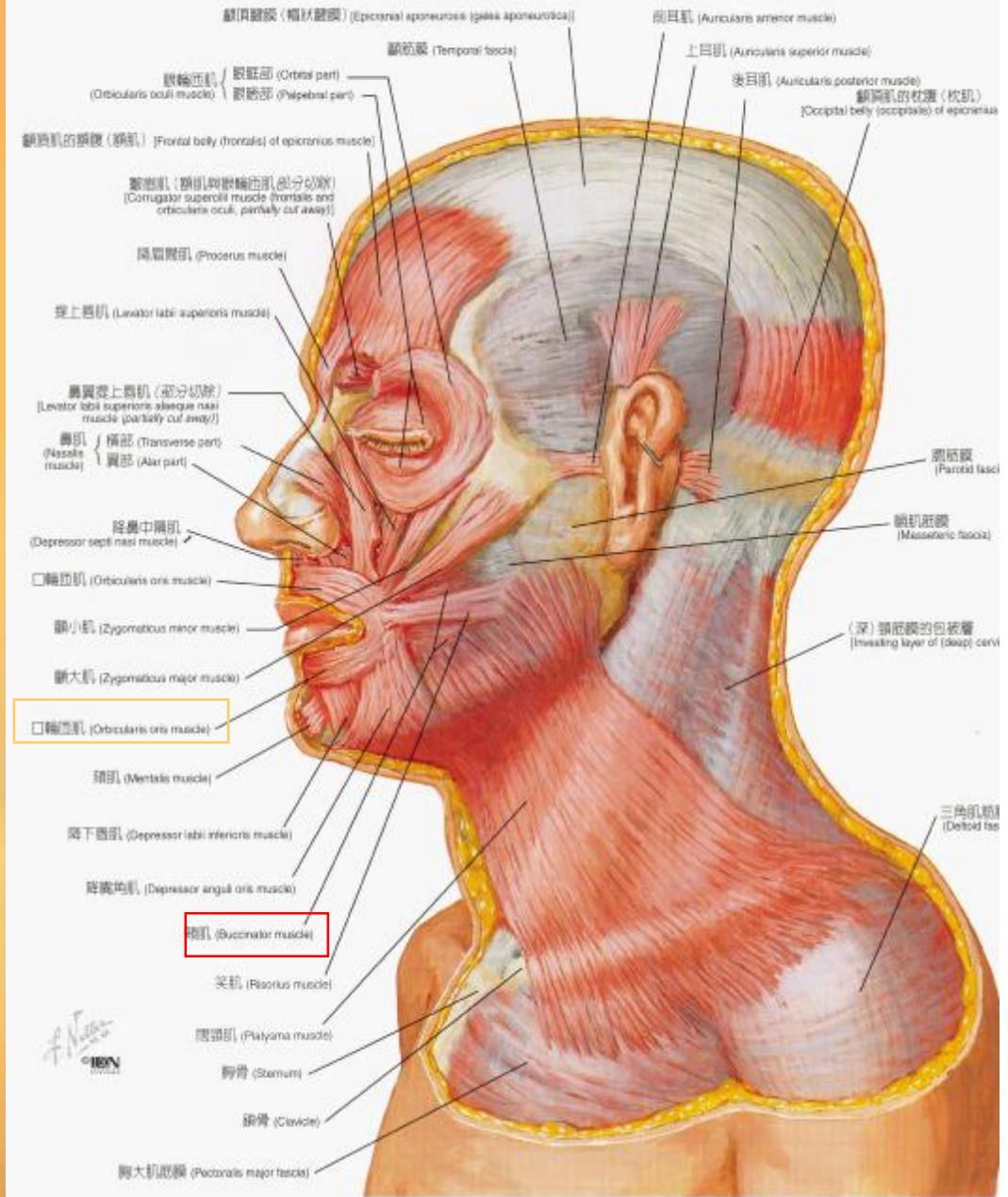
頰肌 (*Buccinator*)

- 起端：上、下頷骨之齒槽突
- 止端：口輪匝肌
- 作用：吹氣吸吮動作



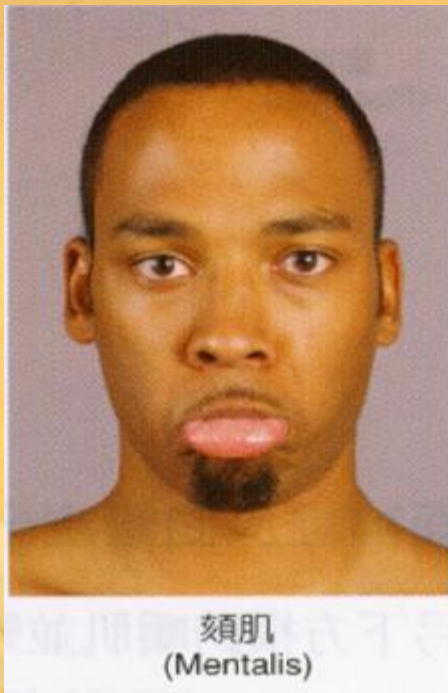
頰肌 + 口輪匝肌
(*Buccinator* + *orbicularis oris*)

顏面表情肌：側面觀 (*Muscles of Facial Expression : Lateral View*)



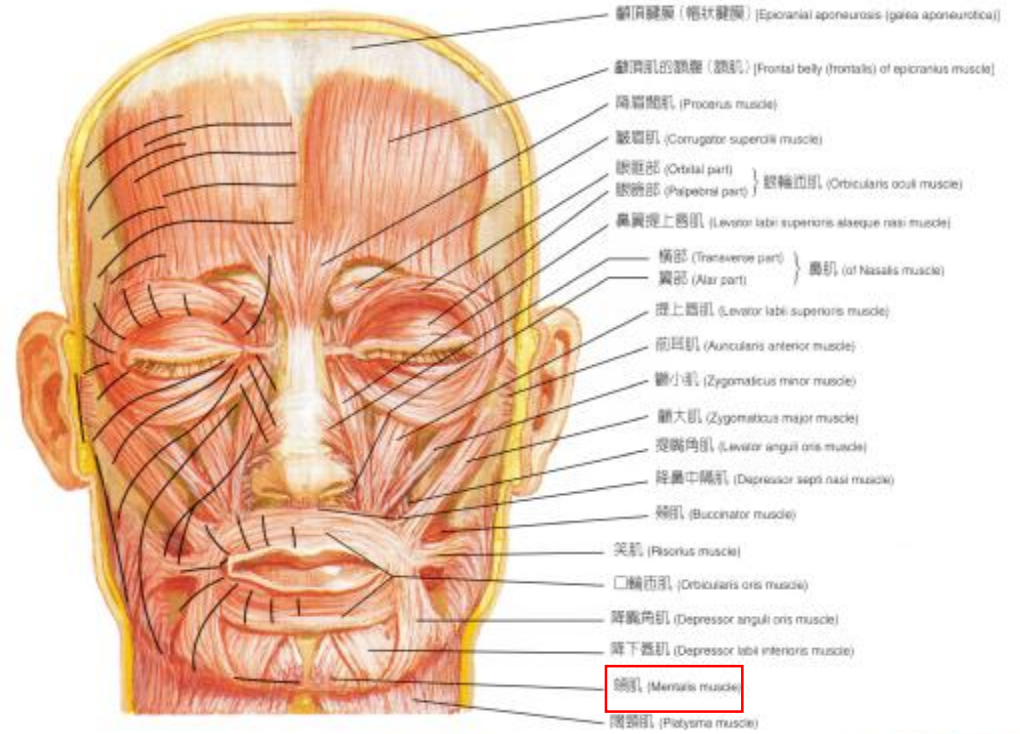
頰肌 (Mentalis)

- 起端：下頷骨
- 止端：頰部
- 作用：噉嘴時將頰部皮膚上拉

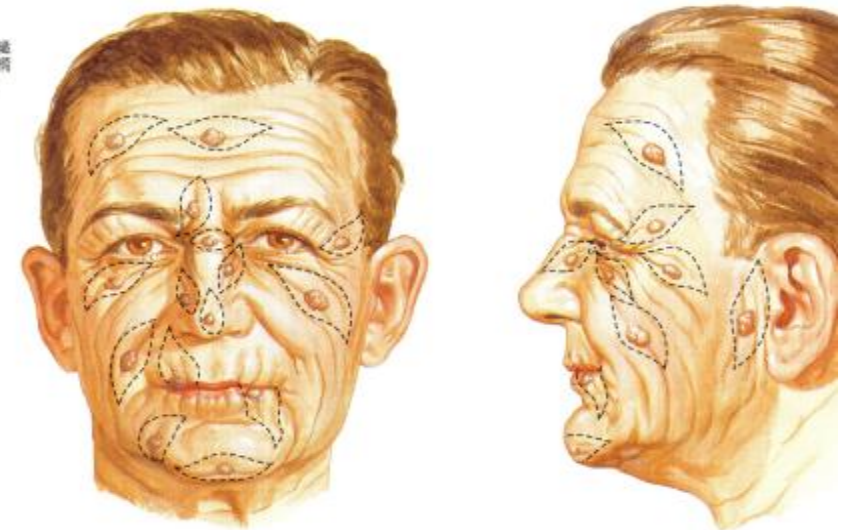


顏面表情肌：前面觀 (Muscles of Facial Expression : Anterior View)

亦見圖片 48

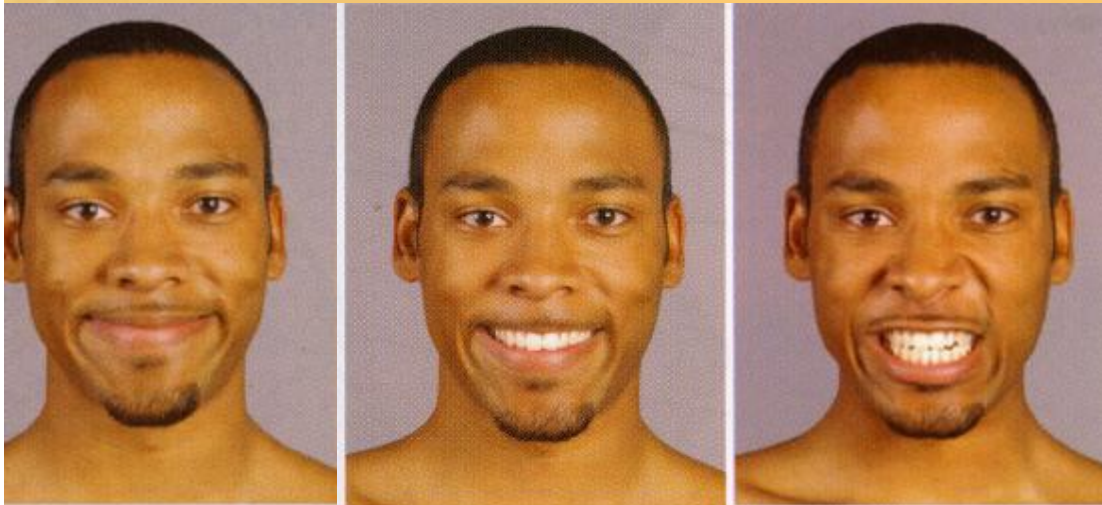


皮膚皺紋線的方向與表情肌的纖維走向垂直。移除皮膚皺紋的橢圓形切法與皺紋線的方向一致。



笑肌 (Risorius)

- 起端：嚼肌上筋膜
- 止端：嘴角之皮膚
- 作用：將嘴角向外拉

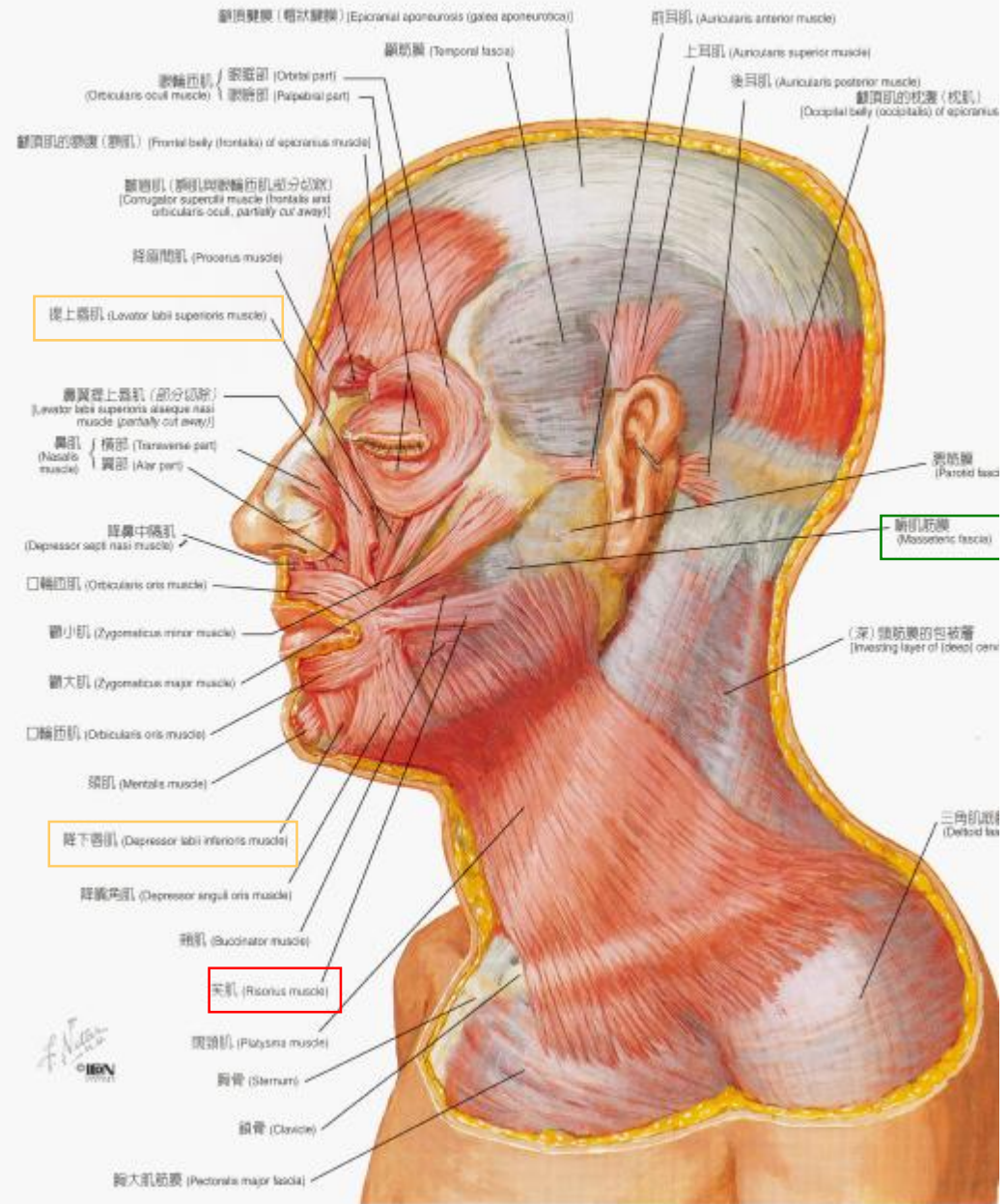


笑肌 (Risorius)

笑肌 + 降下唇肌 (Risorius + depressor labii inferioris)

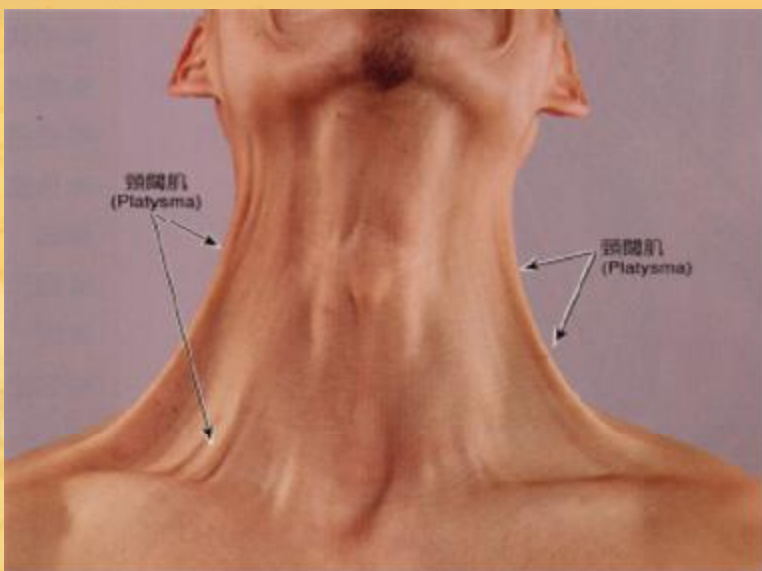
張嘴肌：笑肌 + 提上唇肌 + 降下唇肌

顏面表情肌：側面觀 (Muscles of Facial Expression : Lateral View)

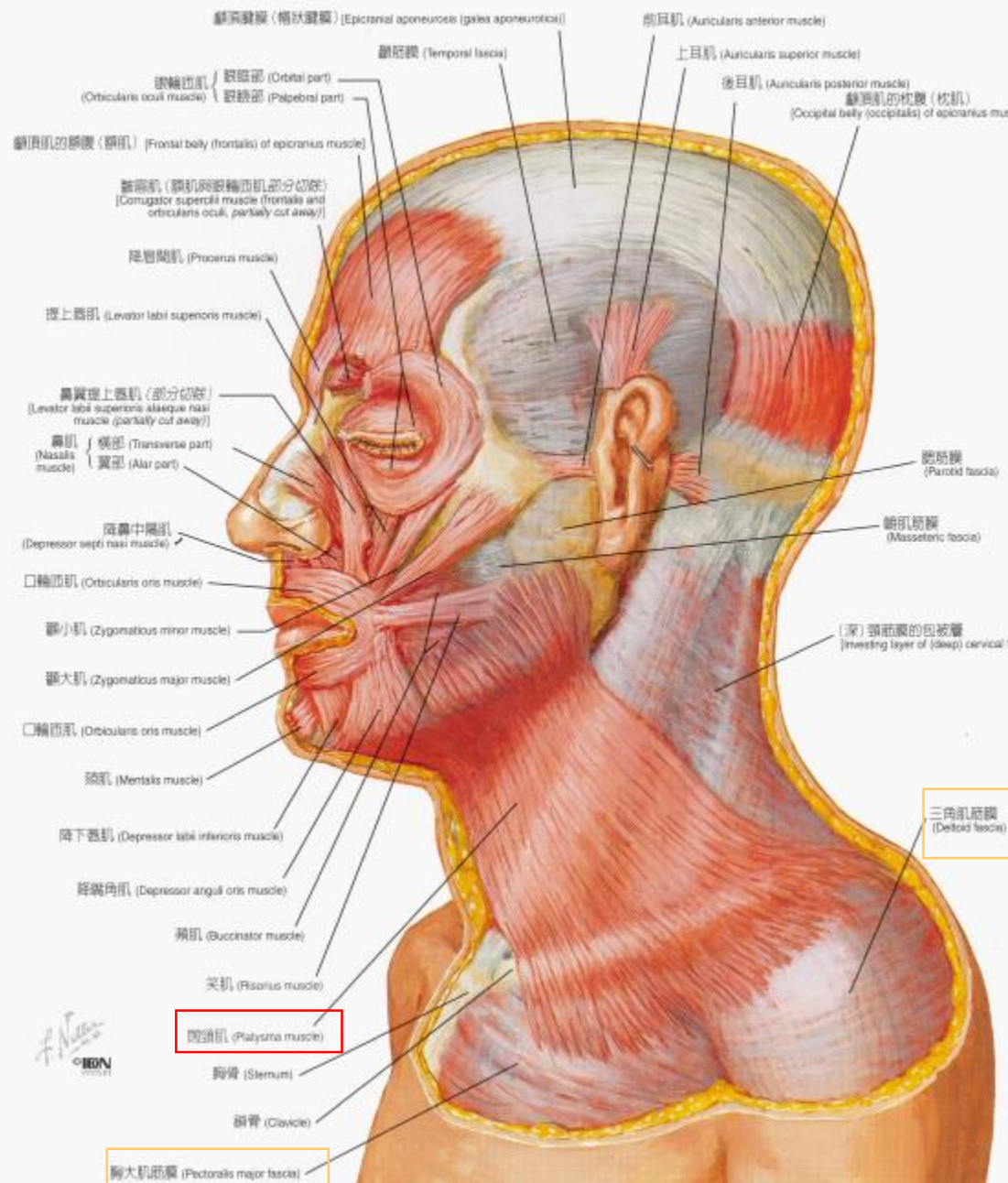


闊頸肌 (Platysma)

- 起端：三角肌及胸大肌上之淺層筋膜
- 止端：下頷骨
- 作用：頸部的皮膚向上拉

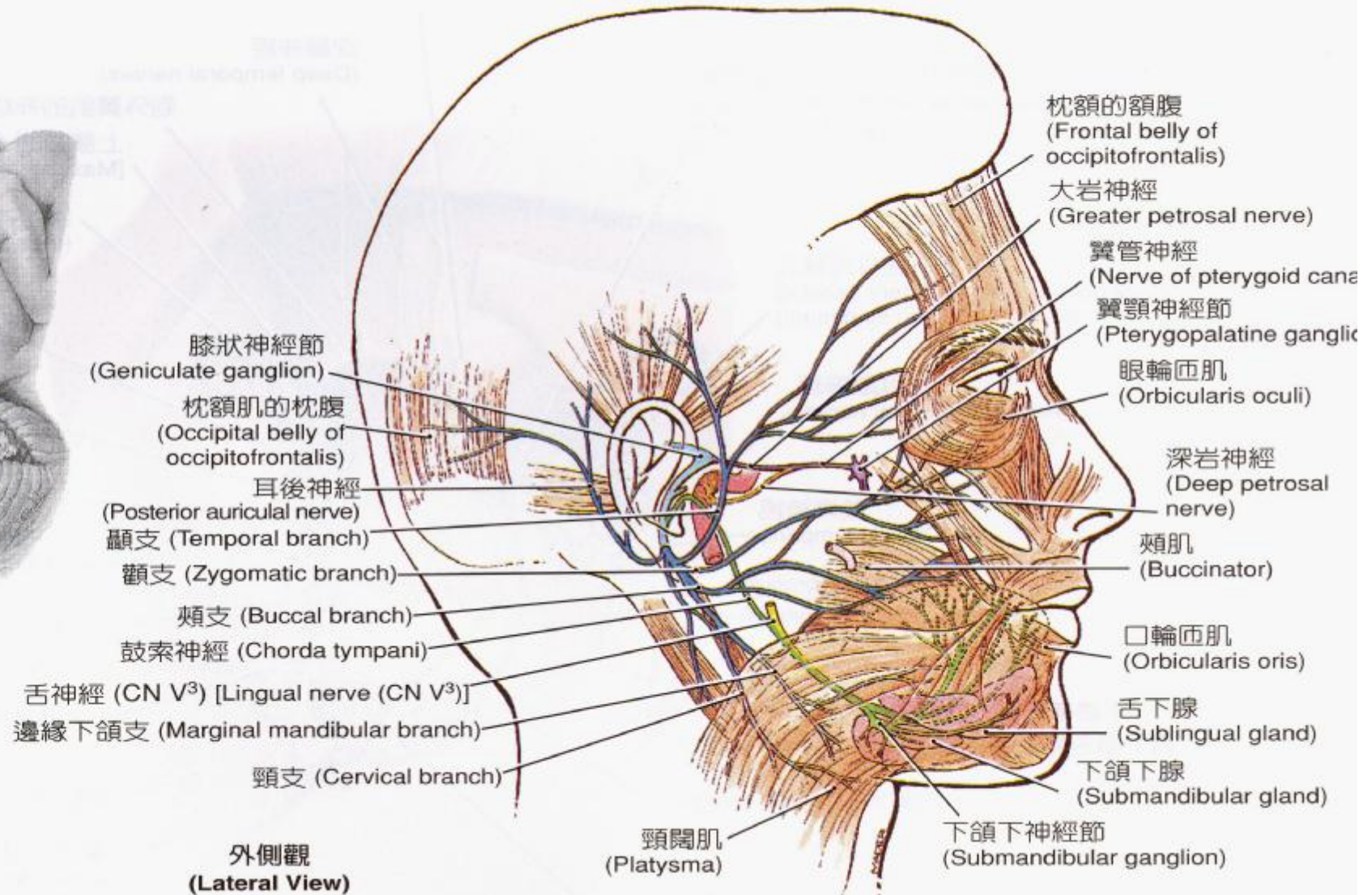
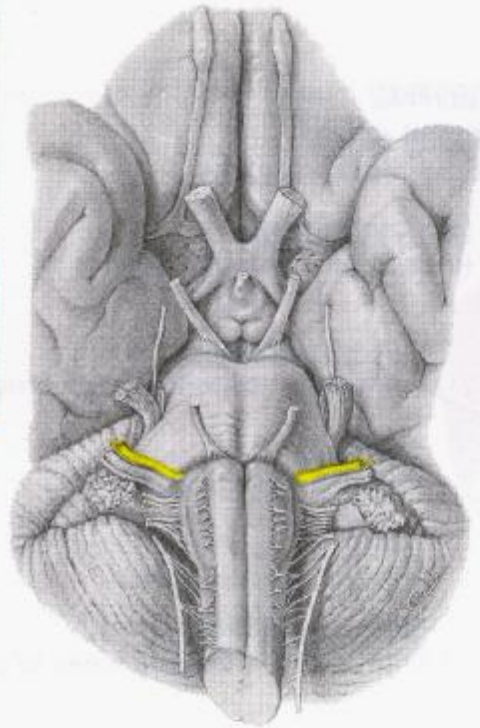


顏面表情肌：側面觀 (Muscles of Facial Expression : Lateral View)

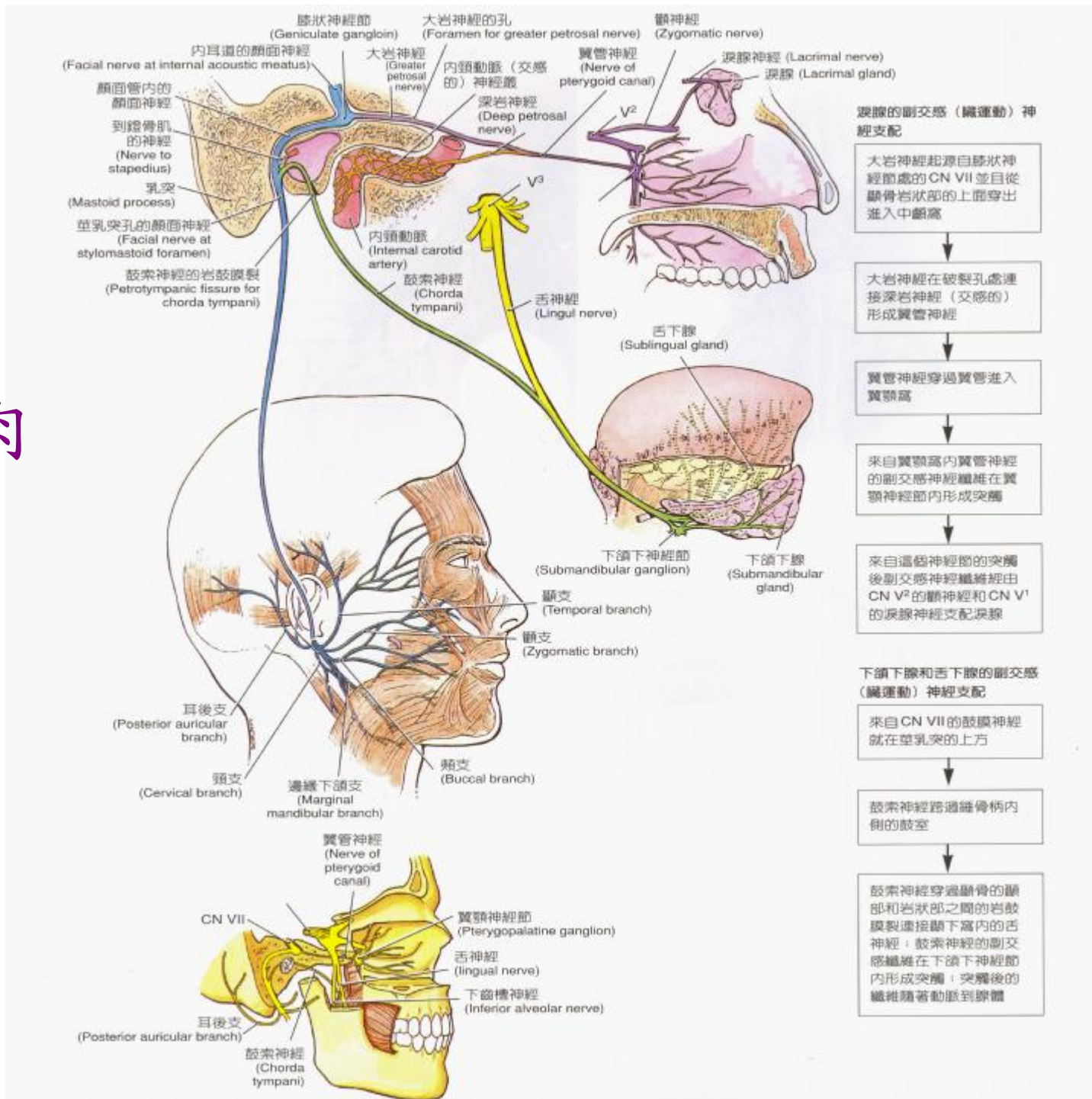


顏面表情肌肉的神經支配

腦神經 VII : 顏面神經

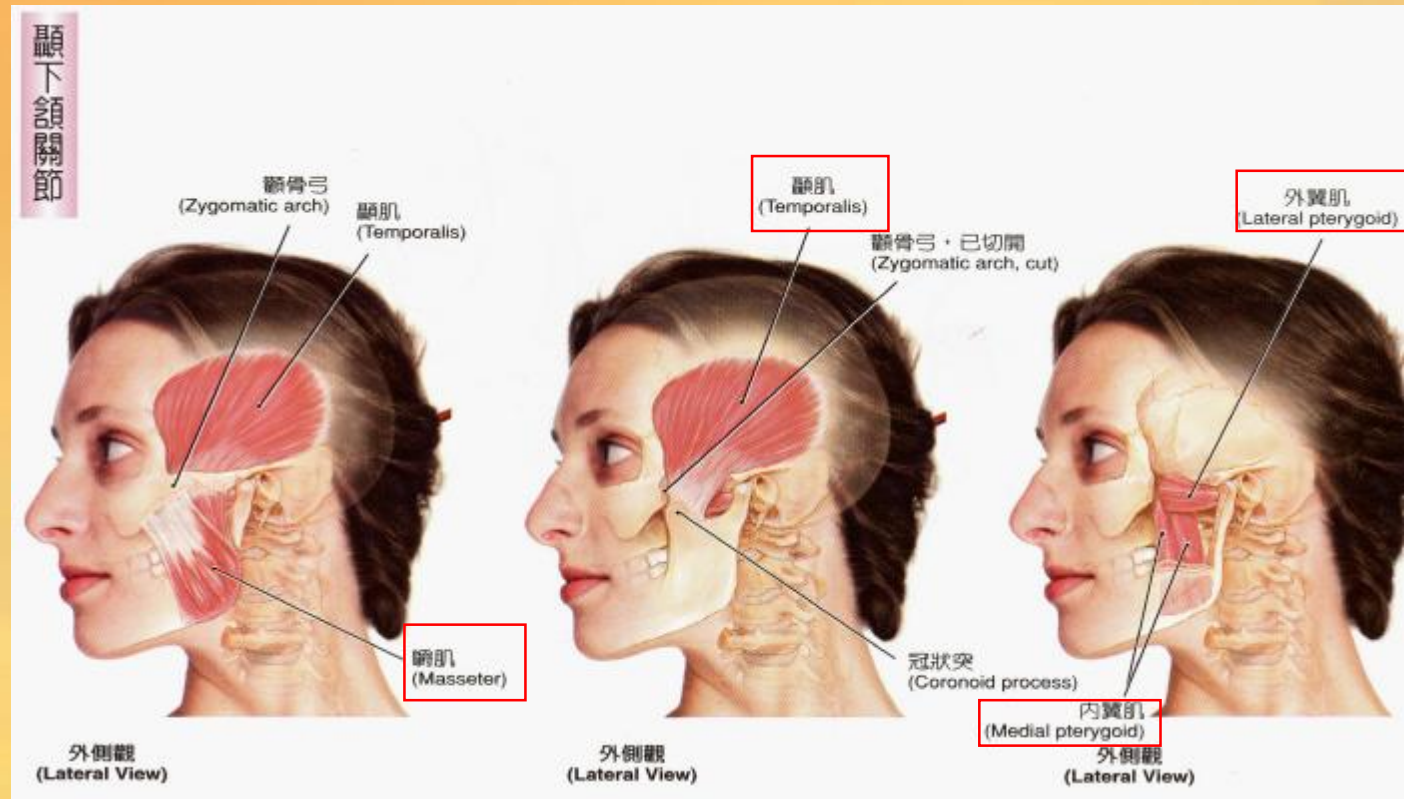


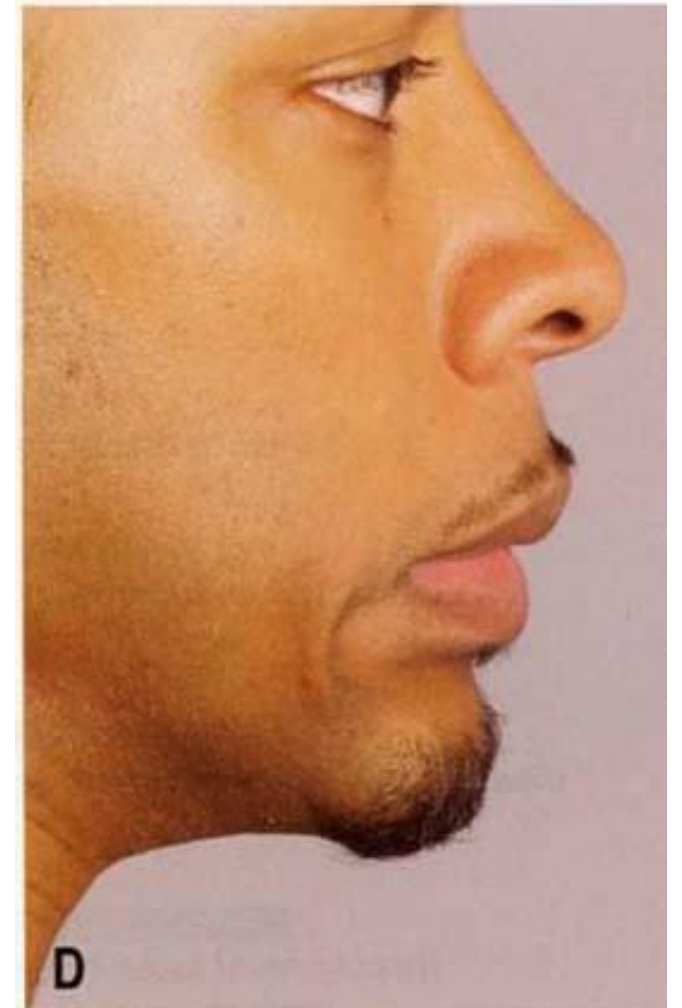
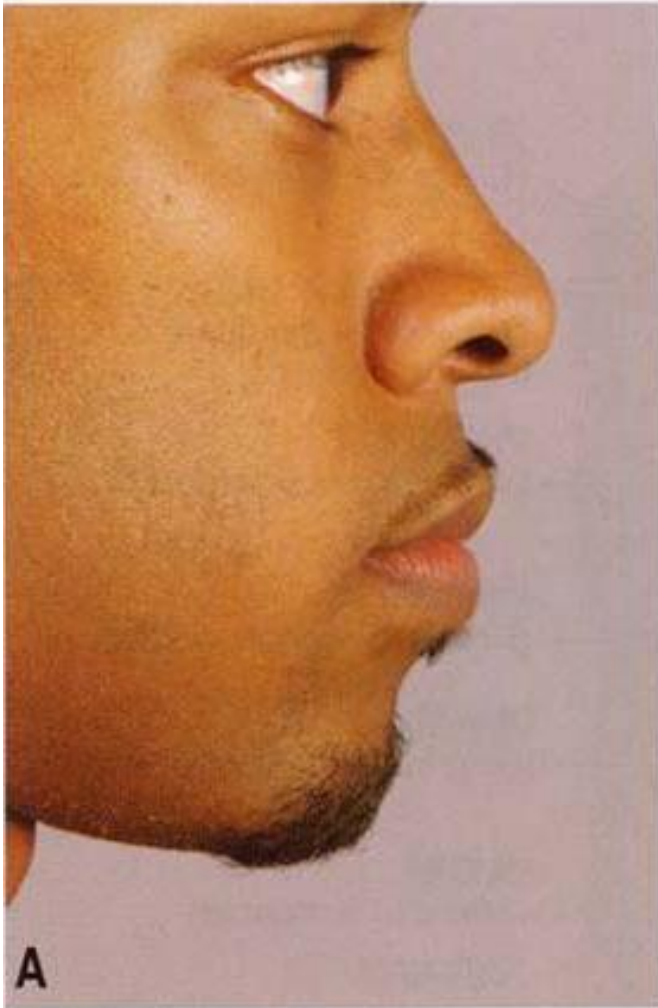
顏面表情肌肉 的神經支配



作用於顫下頷關節的肌肉

- 嚼肌 (Masseter)
- 顫肌 (Temporalis)
- 翼外肌 (Lateral pterygoid)
- 翼內肌 (Medial pterygoid)

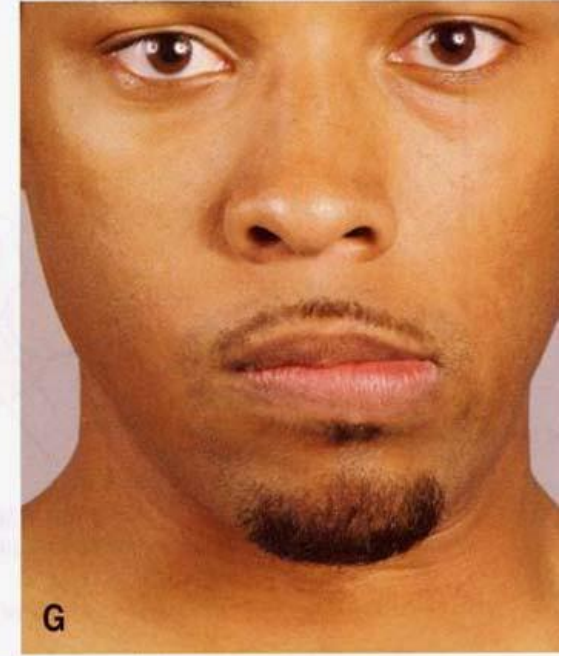
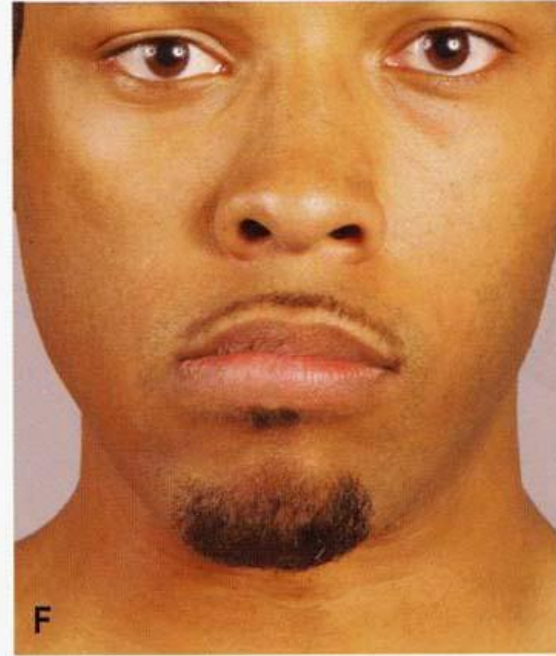
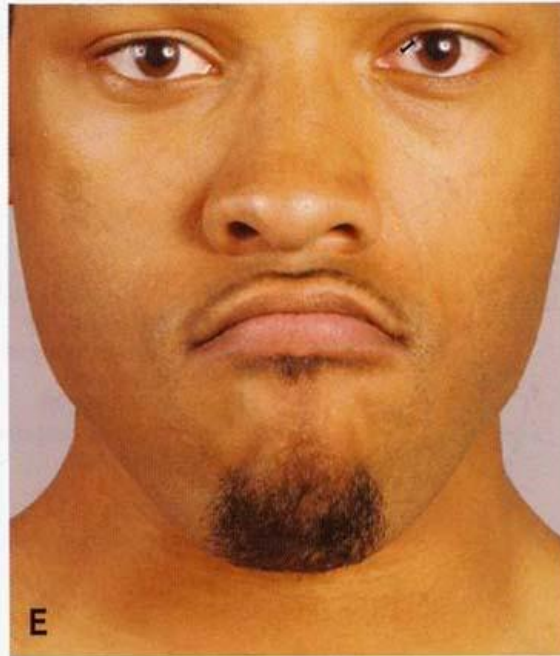




(A) 提上 (關閉嘴巴)
à 顳肌、嚼肌、翼內肌

(B) 壓下 (張開嘴巴)
à 翼外肌、舌骨上下肌

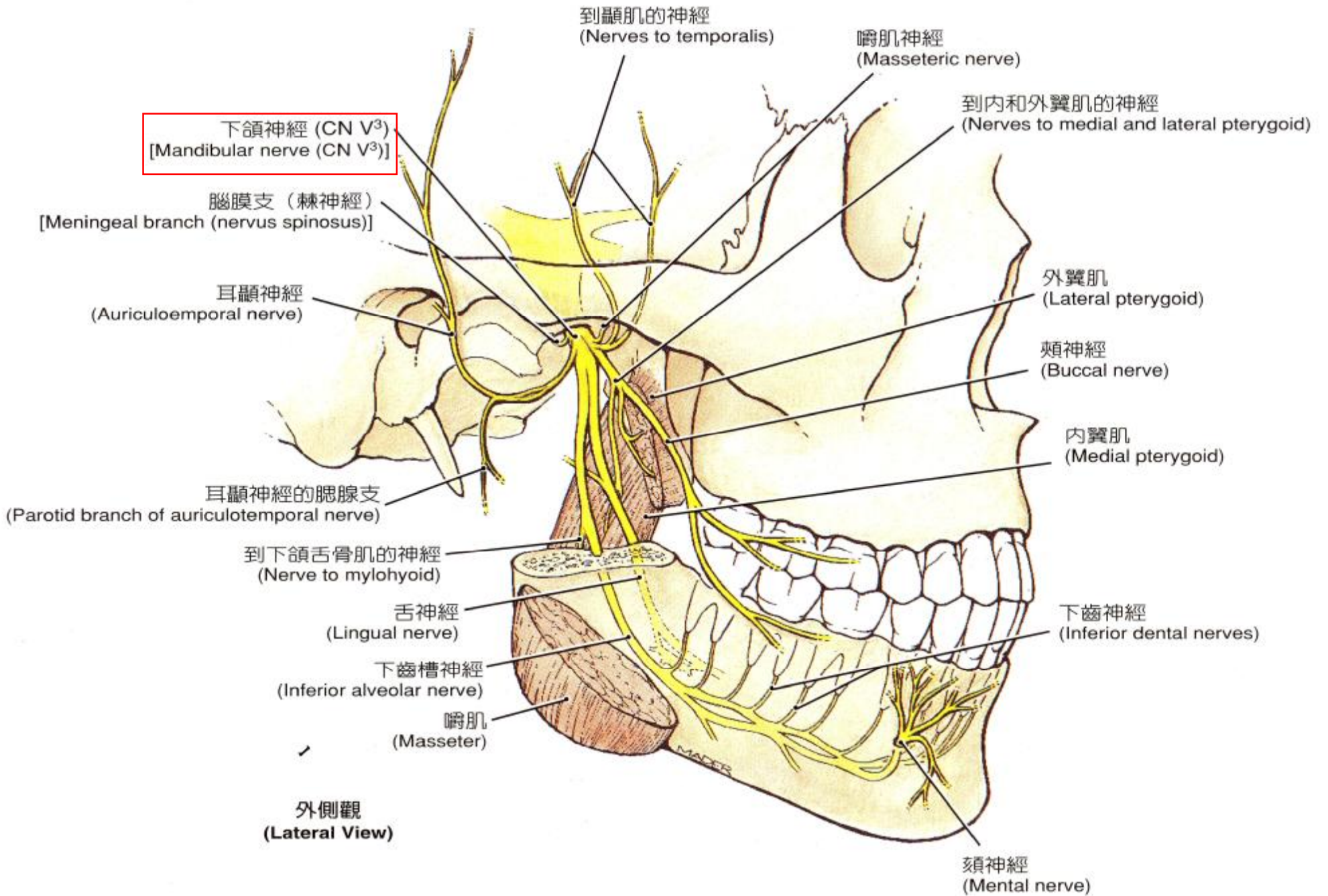
(D) 後移 (後移下顎)
à 顳肌、嚼肌



前面觀
(Anterior Views)

(C, E) 伸出 (伸出下顎)
à 翼外肌、嚼肌、翼內肌

(F, G) 後移下顎
à 同側顳肌、對側翼肌、嚼肌



● 上直肌
(*Superior rectus*)

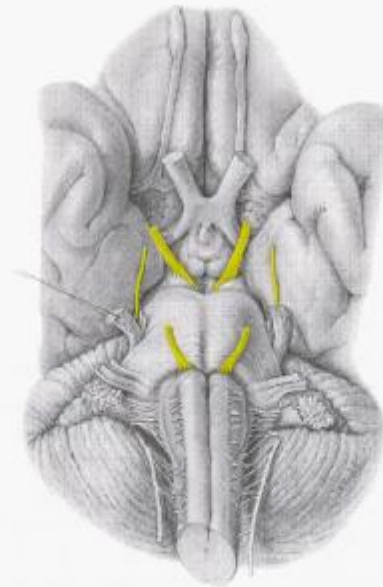
● 下直肌
(*Inferior rectus*)

● 外直肌
(*Lateral rectus*)

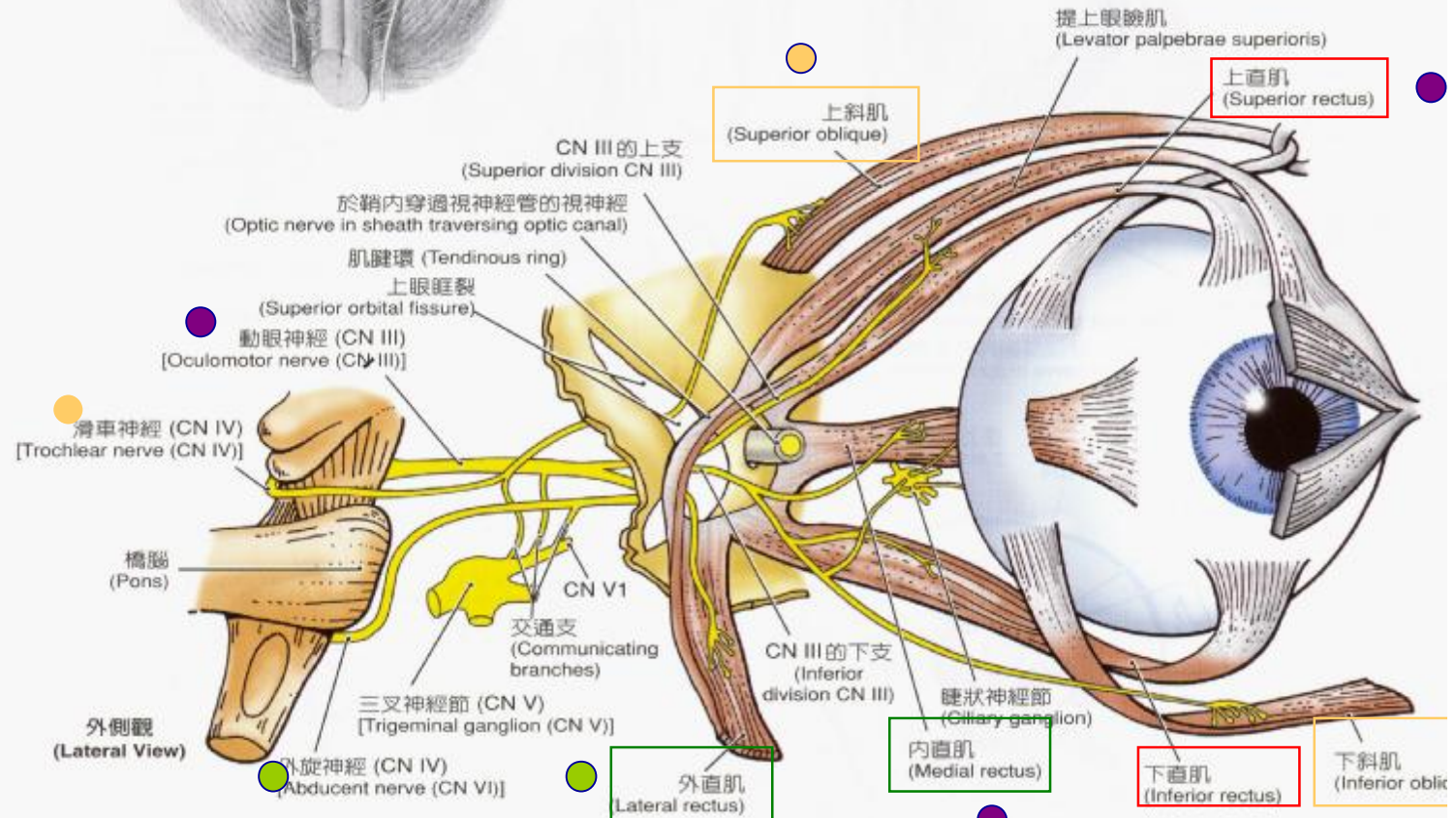
● 內直肌
(*Medial rectus*)

● 上斜肌
(*Superior oblique*)

● 下斜肌
(*Inferior oblique*)



移動眼球的肌肉



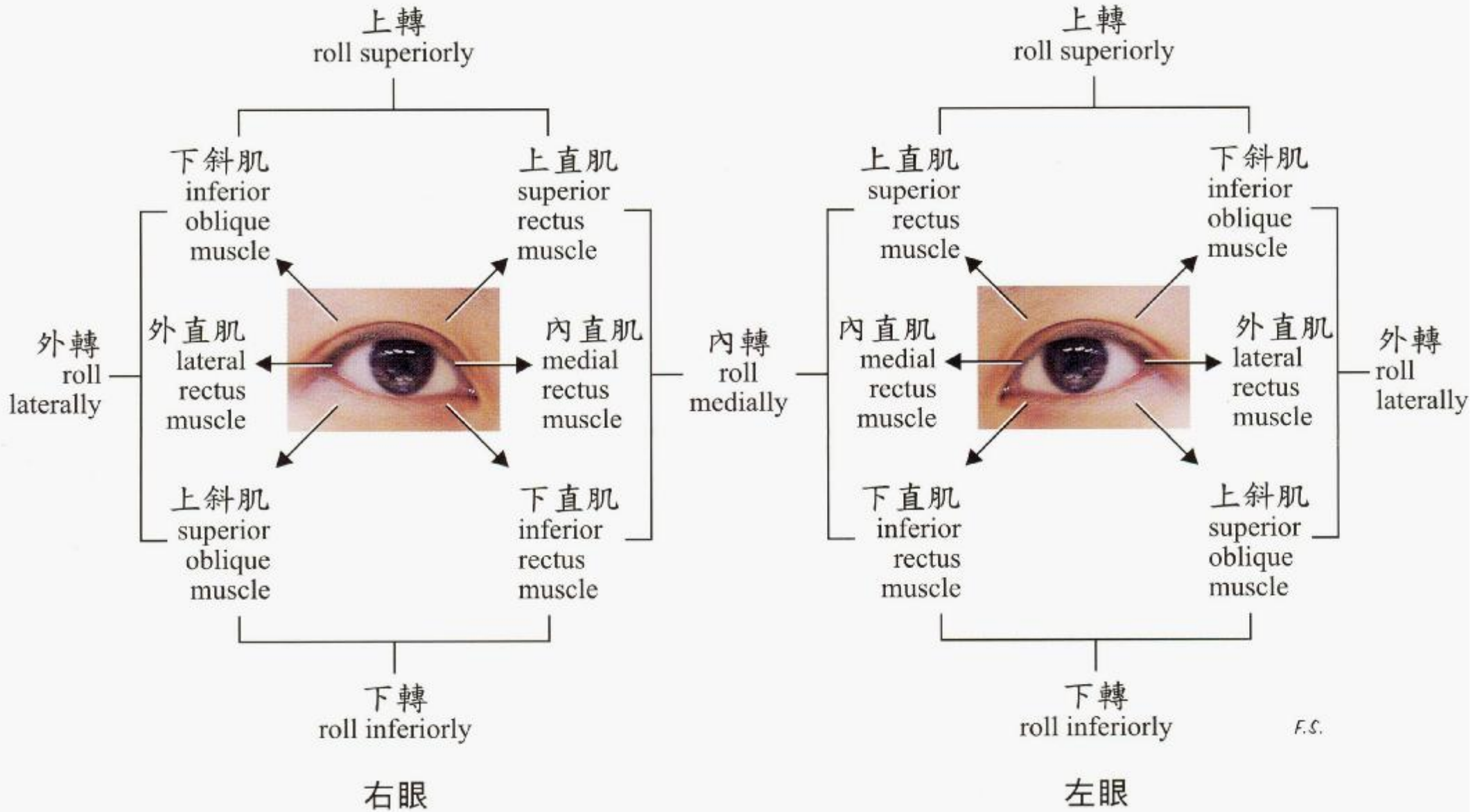
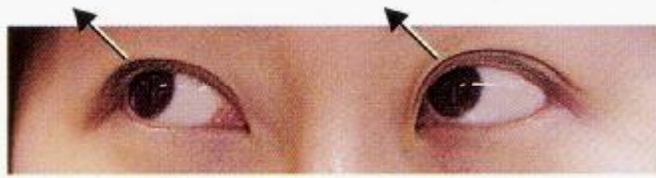
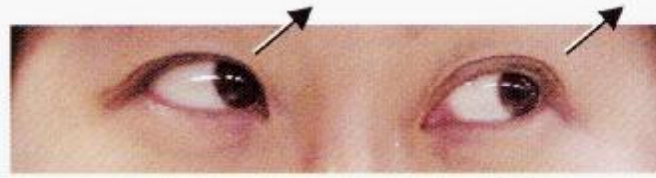


圖 7-19 眼外在肌群作用與眼球之轉動



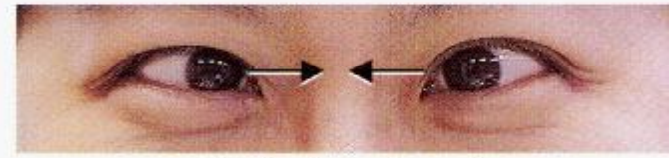
下斜肌
inferior oblique
muscle

上直肌
superior rectus
muscle

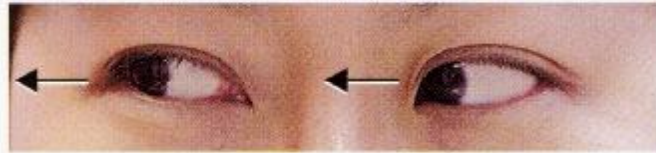


上直肌
superior rectus
muscle

下斜肌
inferior oblique
muscle

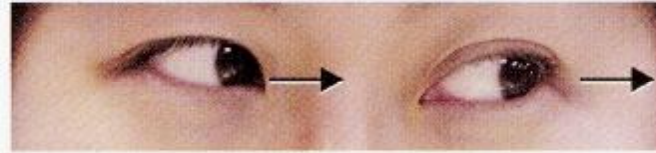


聚合(內直肌)
(medial rectus muscle)



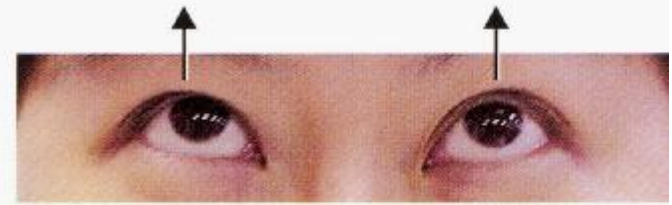
外直肌
lateral rectus
muscle

內直肌
medial rectus
muscle



內直肌
medial rectus
muscle

外直肌
lateral rectus
muscle



上凝視(上直肌、下斜肌)
(superior rectus muscle、
inferior oblique muscle)



上斜肌
superior oblique
muscle

下直肌
inferior rectus
muscle



下直肌
inferior rectus
muscle

上斜肌
superior oblique
muscle



下凝視(下直肌、上斜肌)
(inferior rectus muscle、
superior oblique muscle)

F.S.

圖 7-18 肌肉的作用及眼球的運動方向

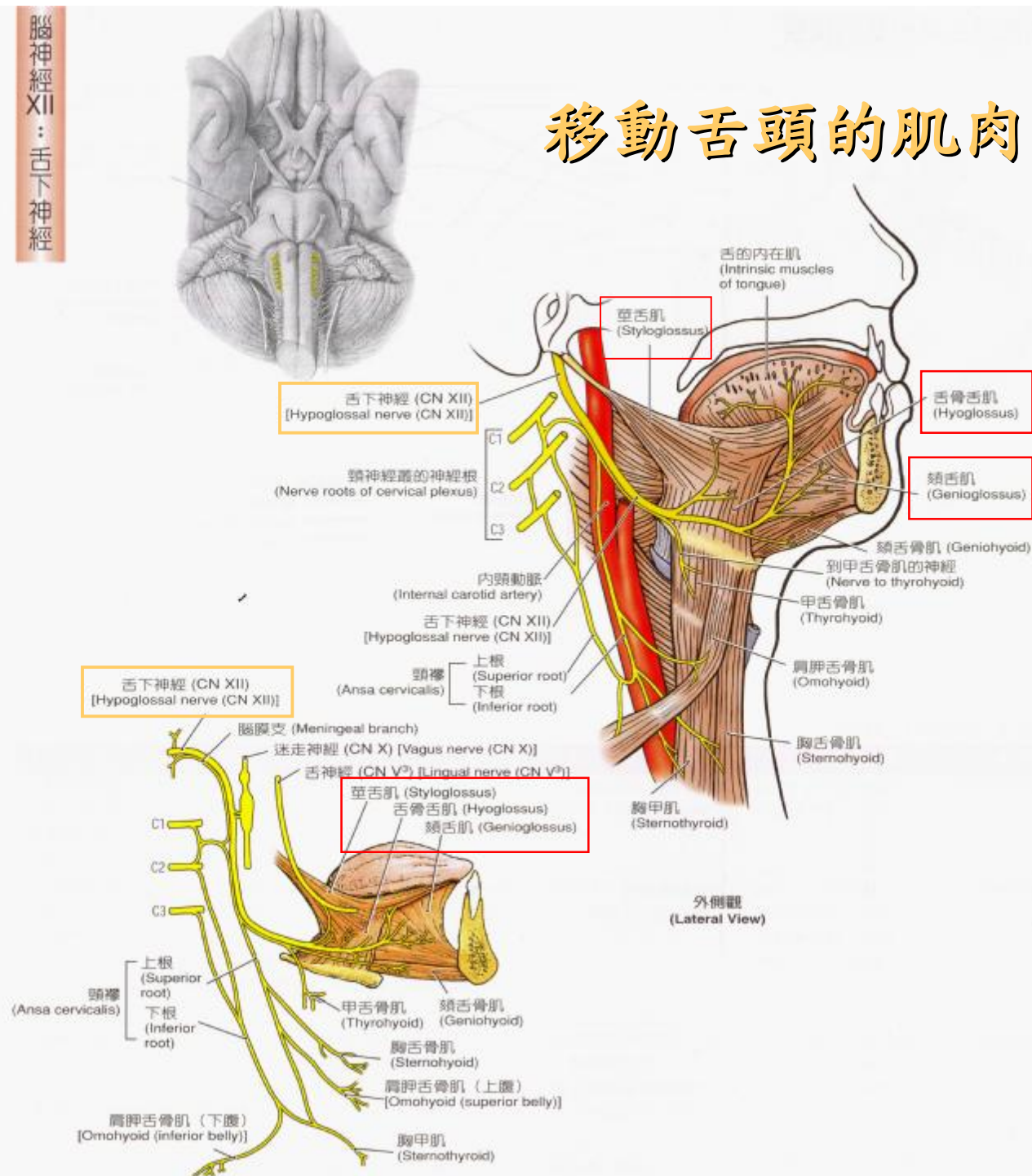
● 顏舌肌
(Genioglossus)

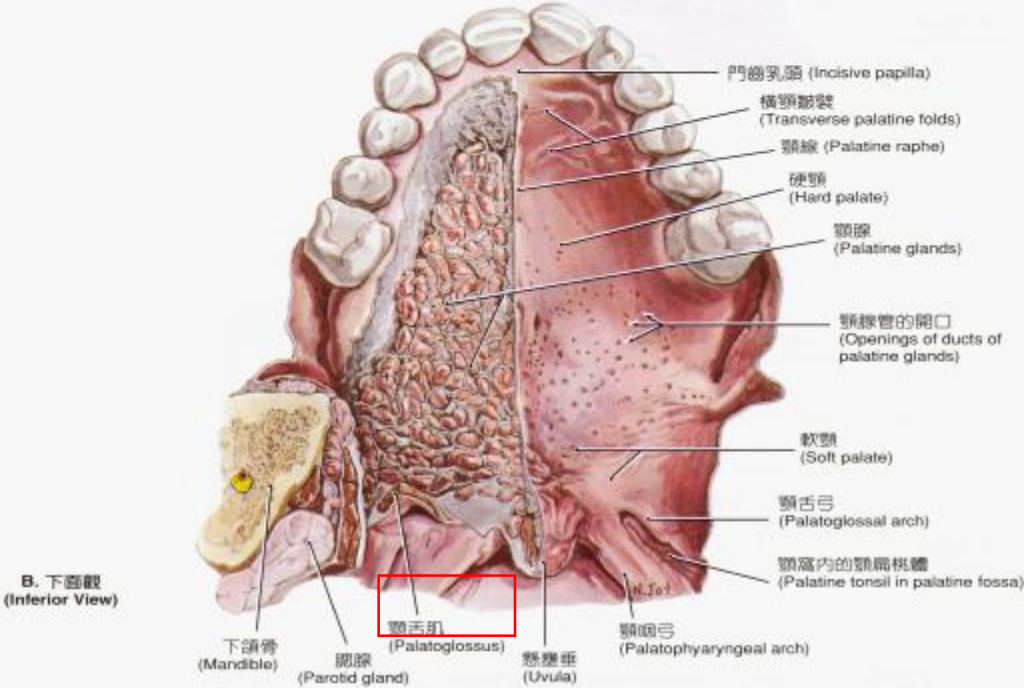
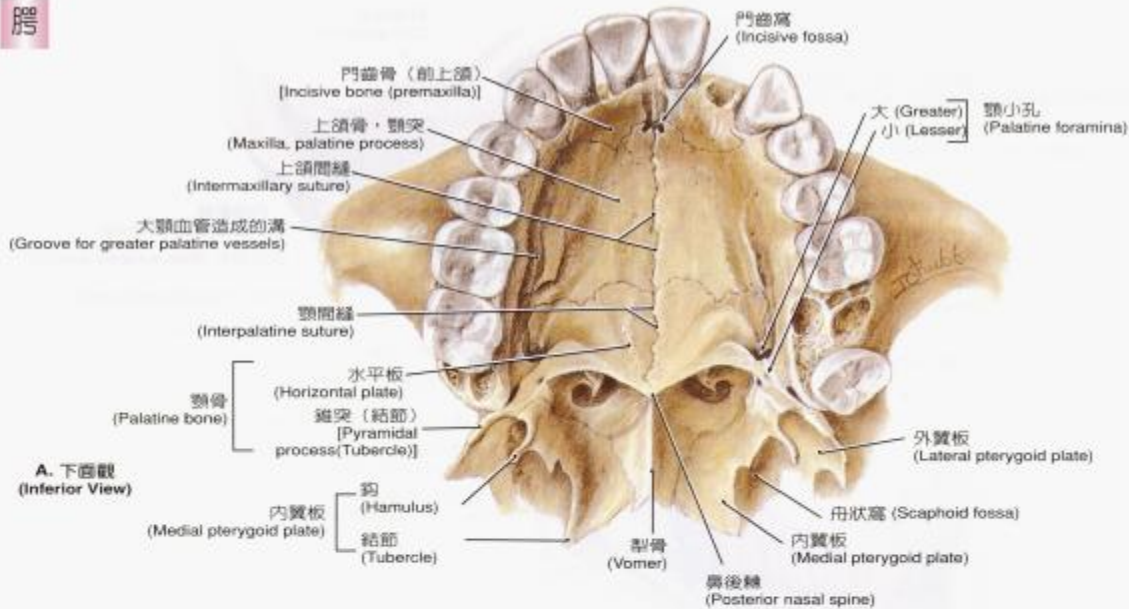
● 莖突舌肌
(Styloglossus)

● 舌骨舌肌
(Hyoglossus)

● 腭舌肌
(Palatoglossus)

腦神經 XII : 舌下神經







對著鏡子，笑一笑，
順便複習一下有哪些
肌肉在運動！！