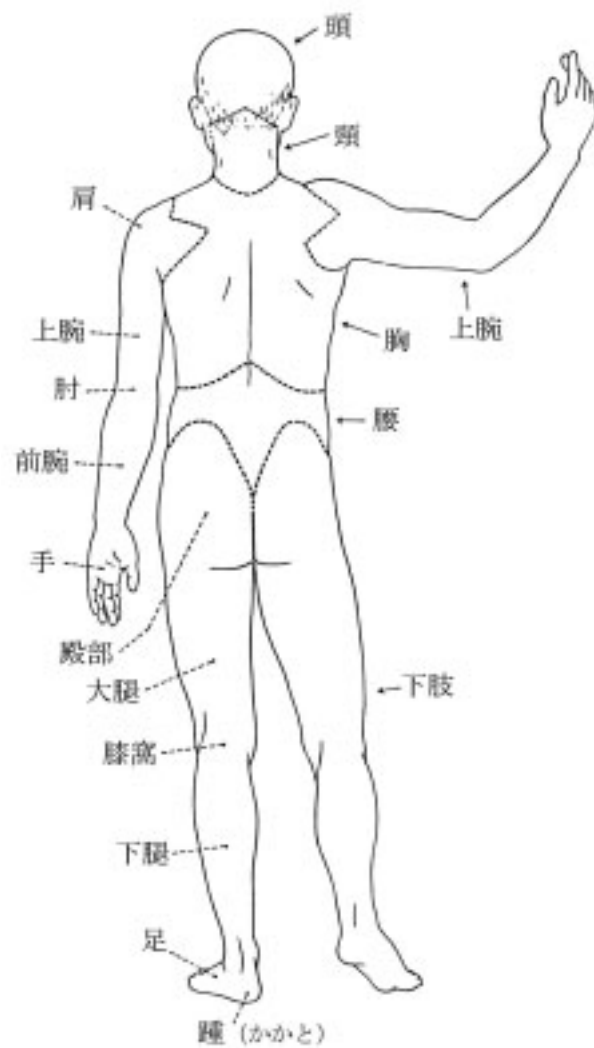
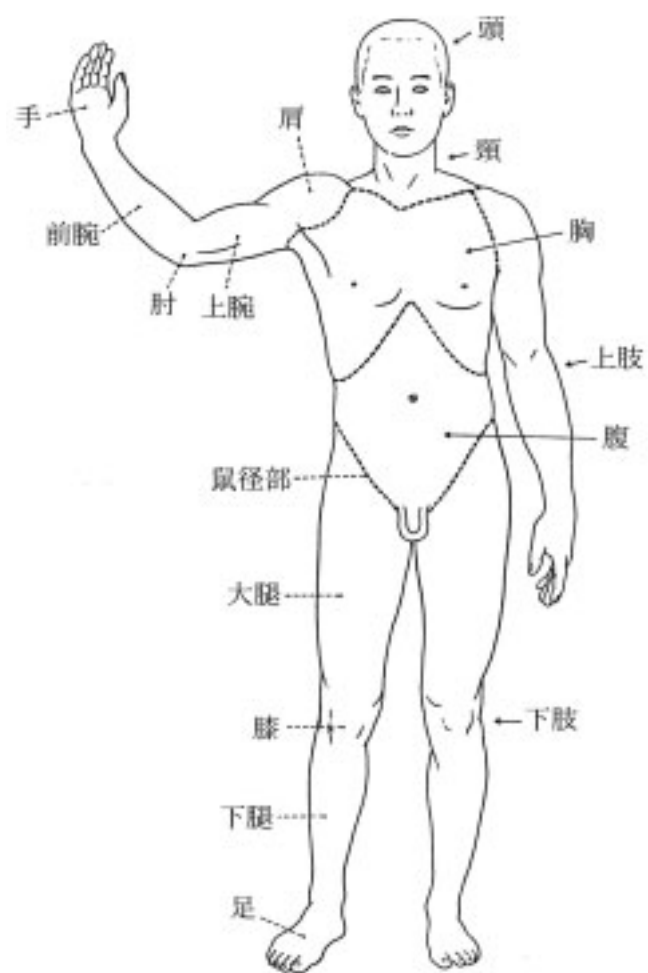
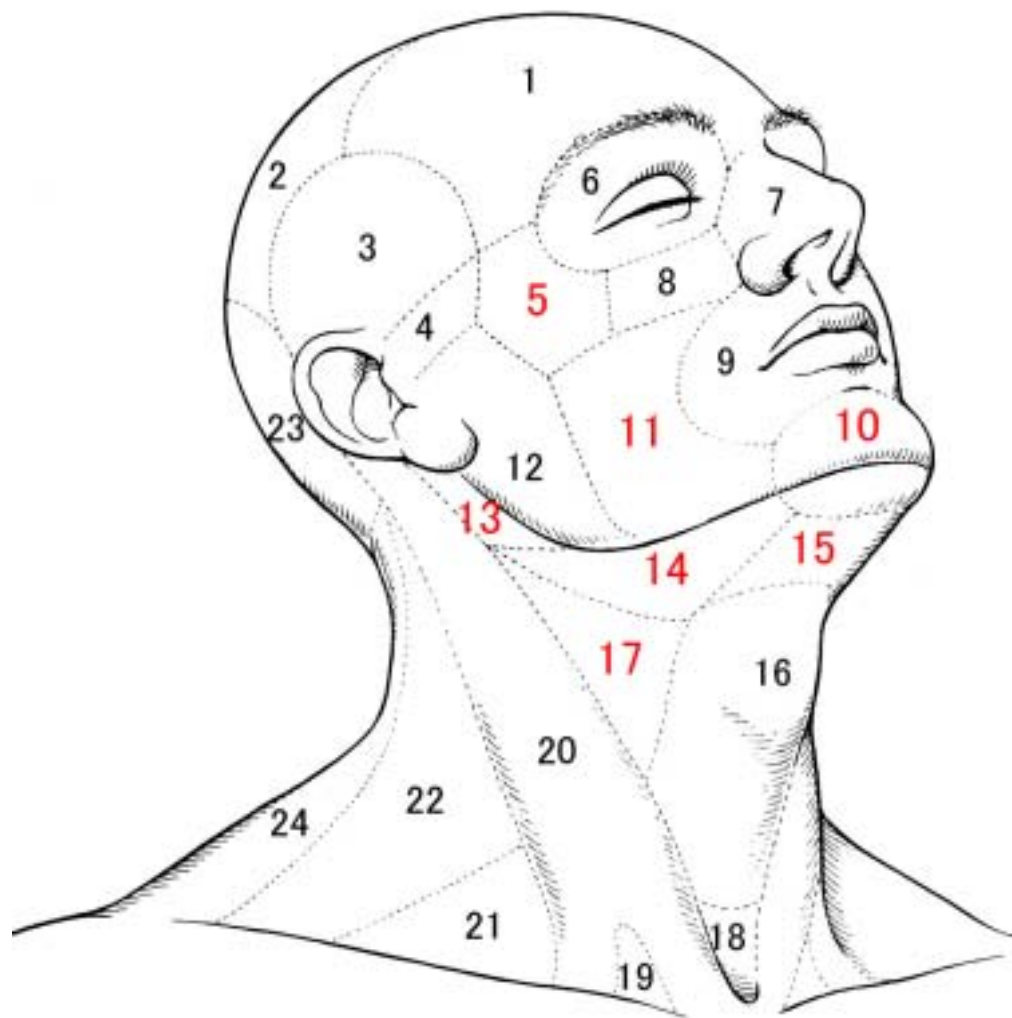


解剖学・口腔解剖学

平成20年度 (2008年度)

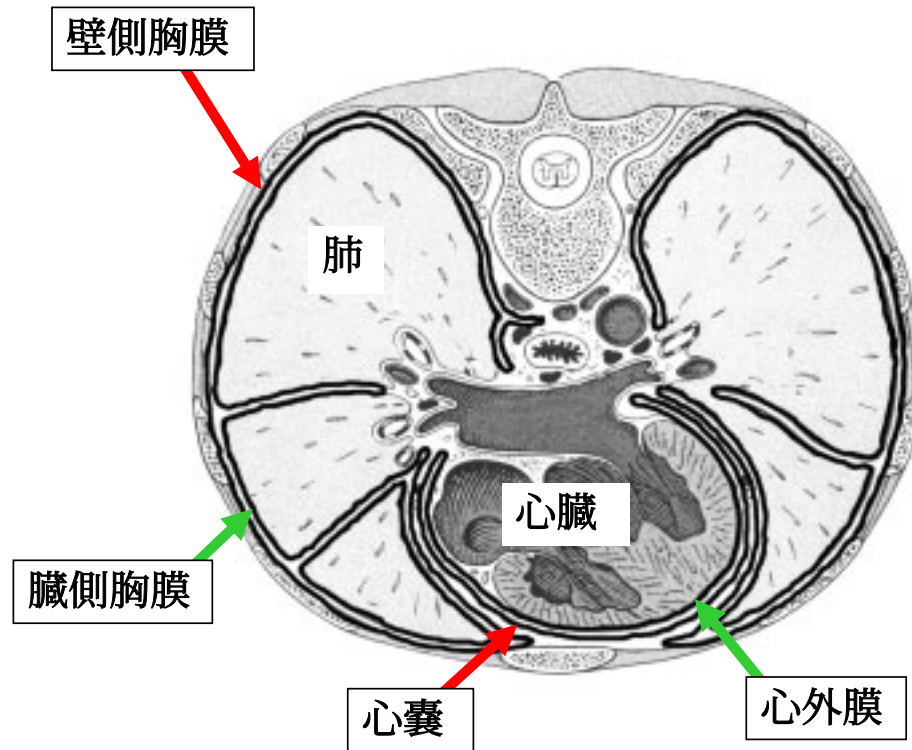
解剖学 総論



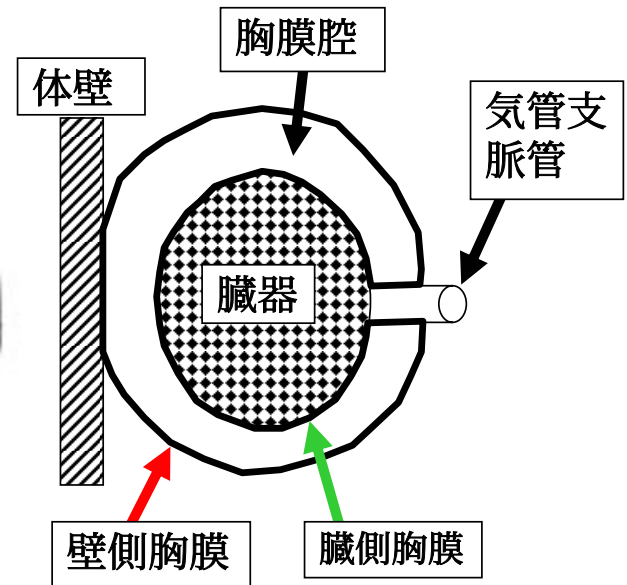


体腔と膜 (1)

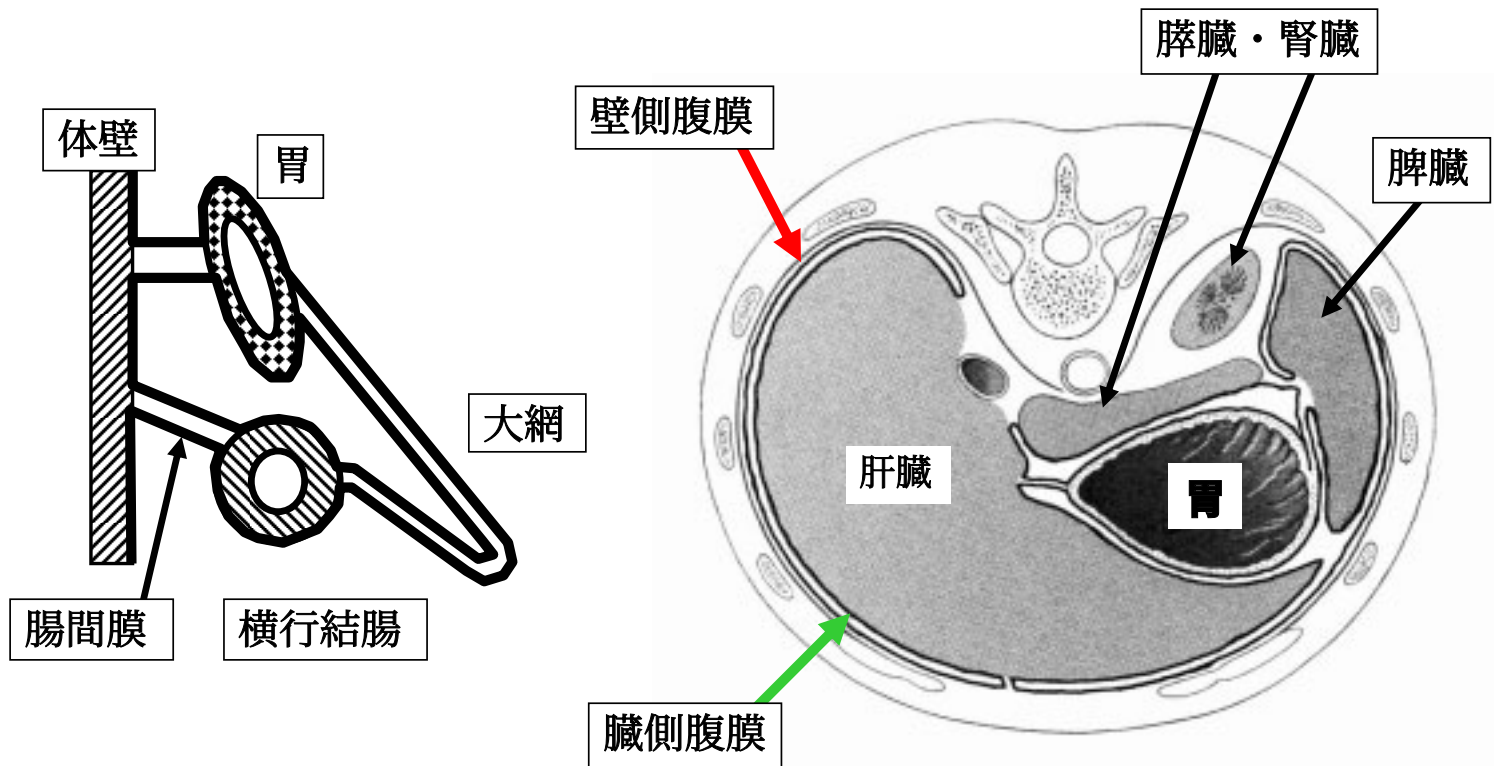
後



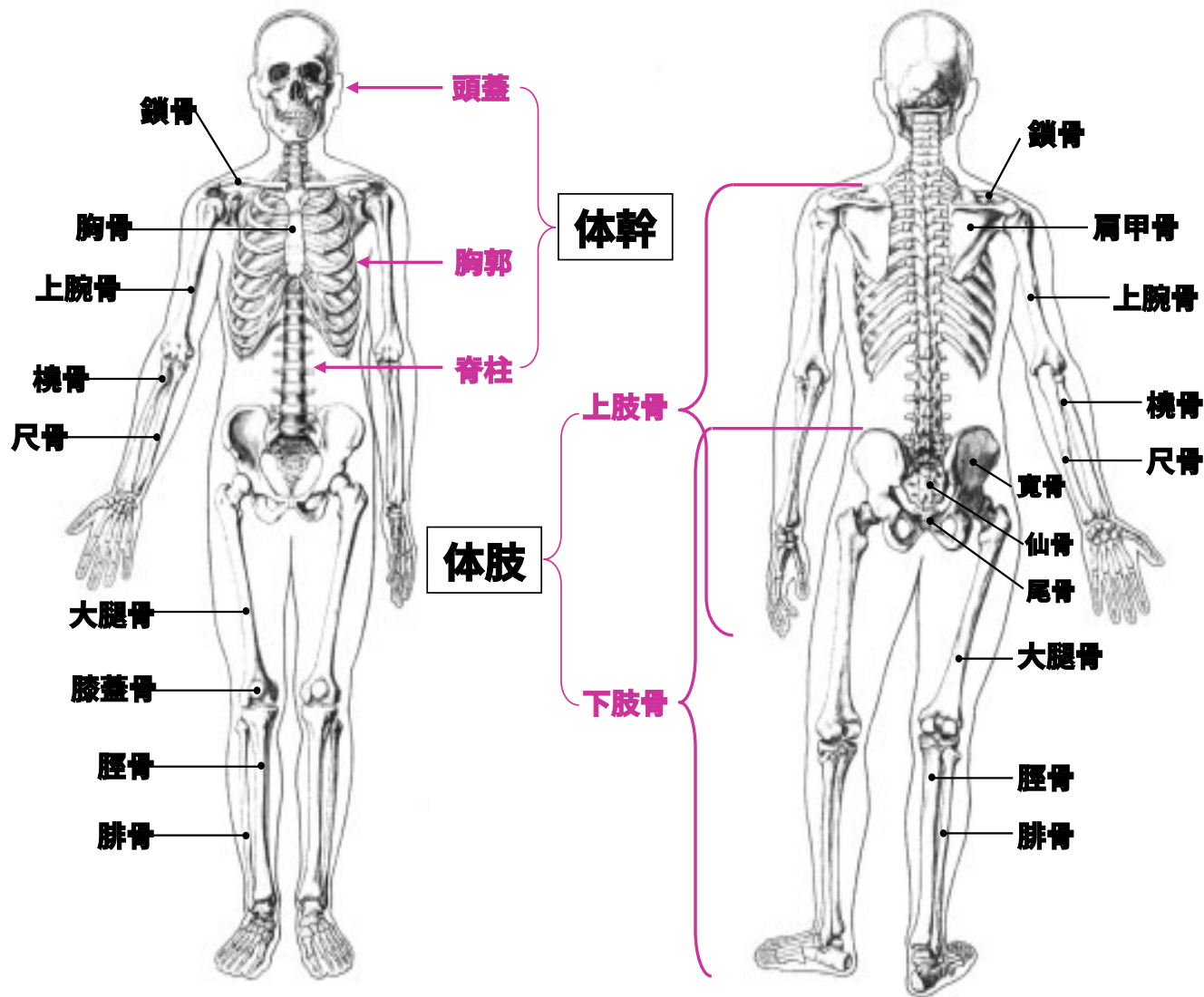
前



体腔と膜 (2)



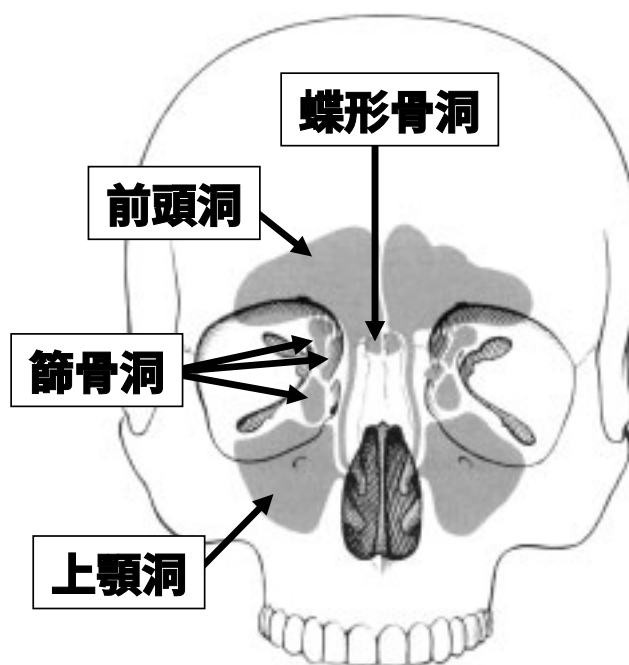
骨 学 総 論

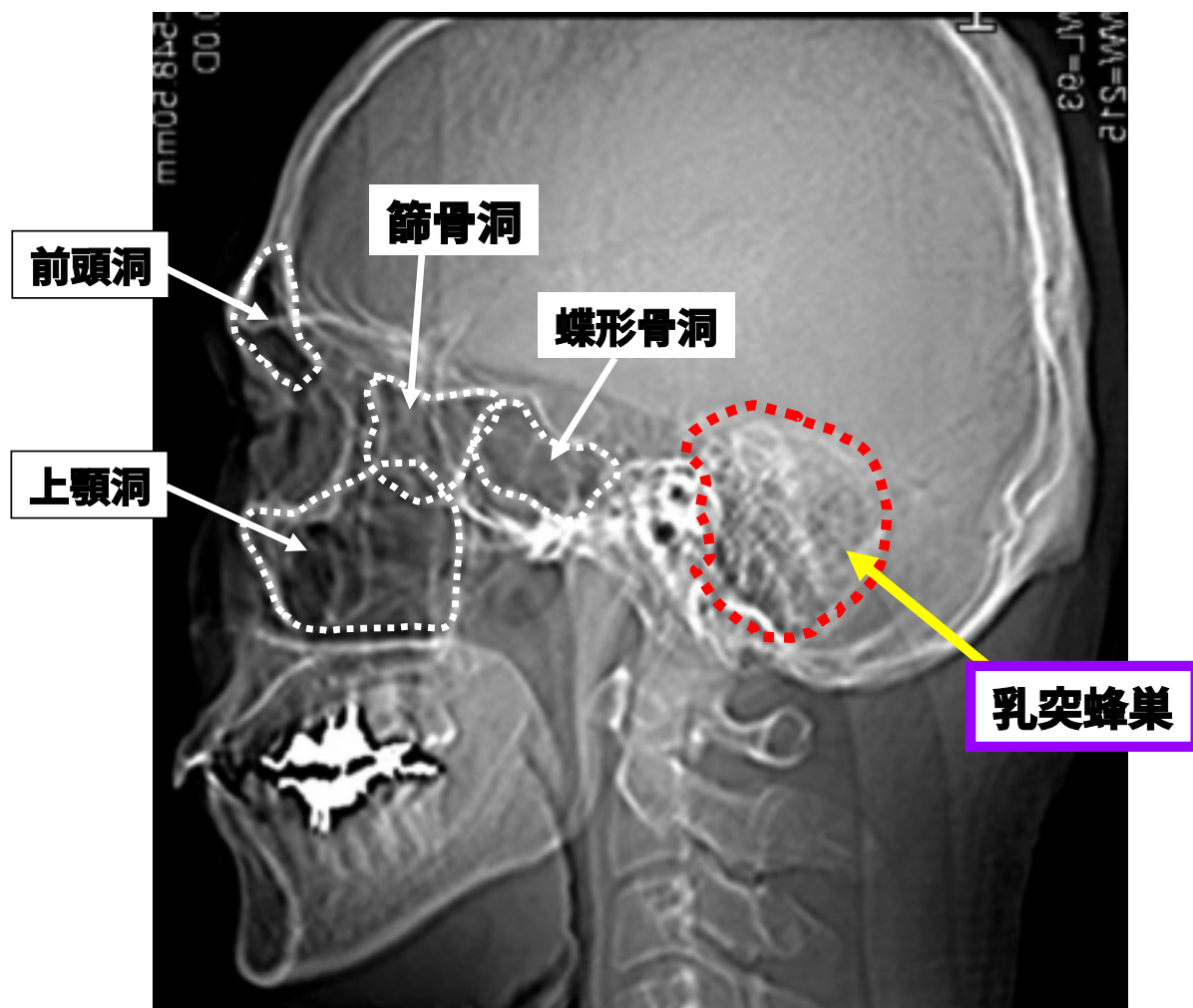


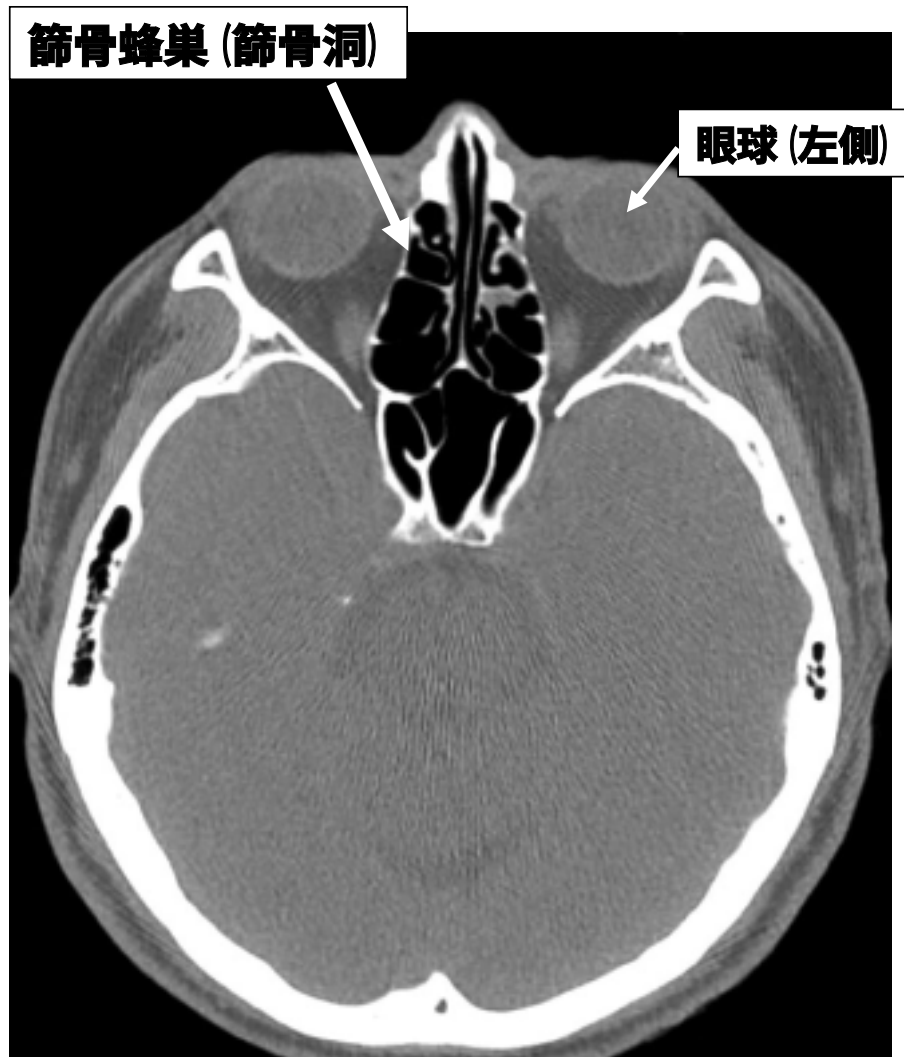
含氣骨

- 1) 上顎骨
- 2) 篩骨
- 3) 前頭骨
- 4) 蝶形骨
- 5) 側頭骨
— 乳突蜂巢

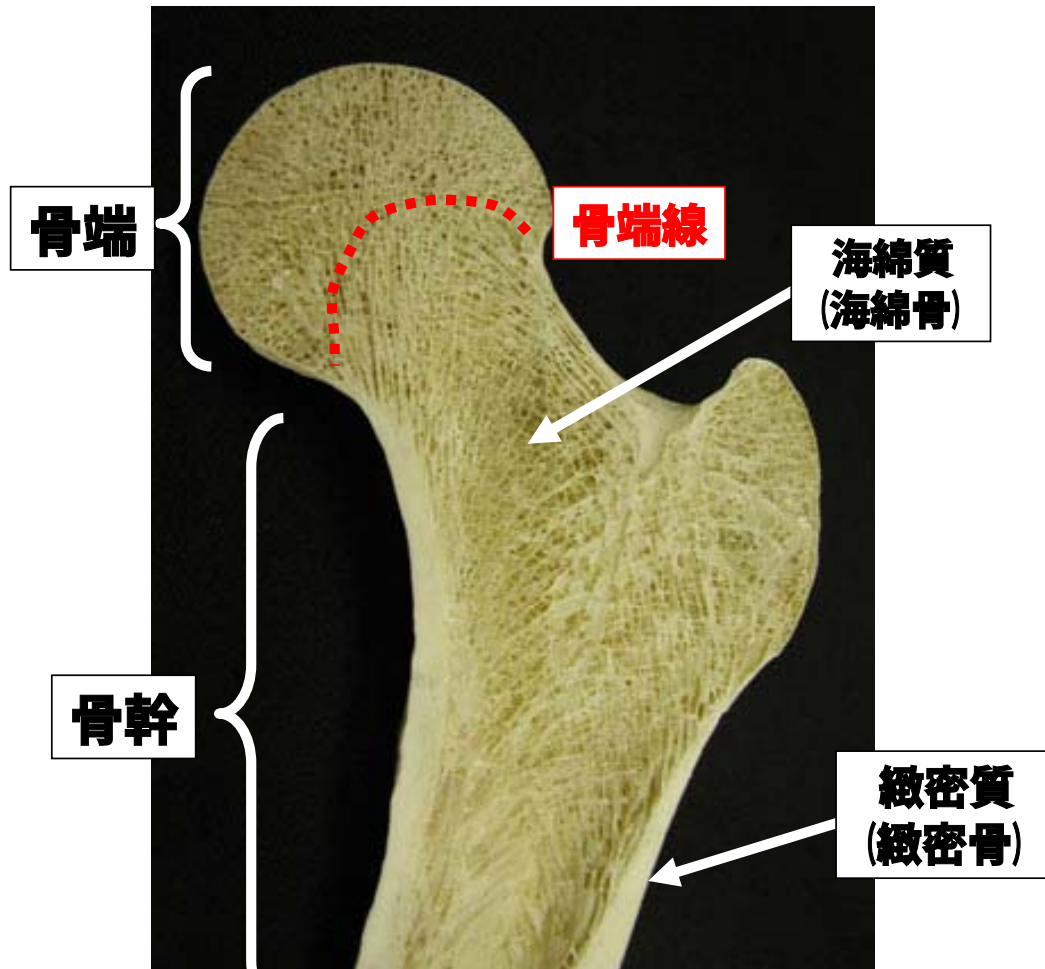
副鼻腔



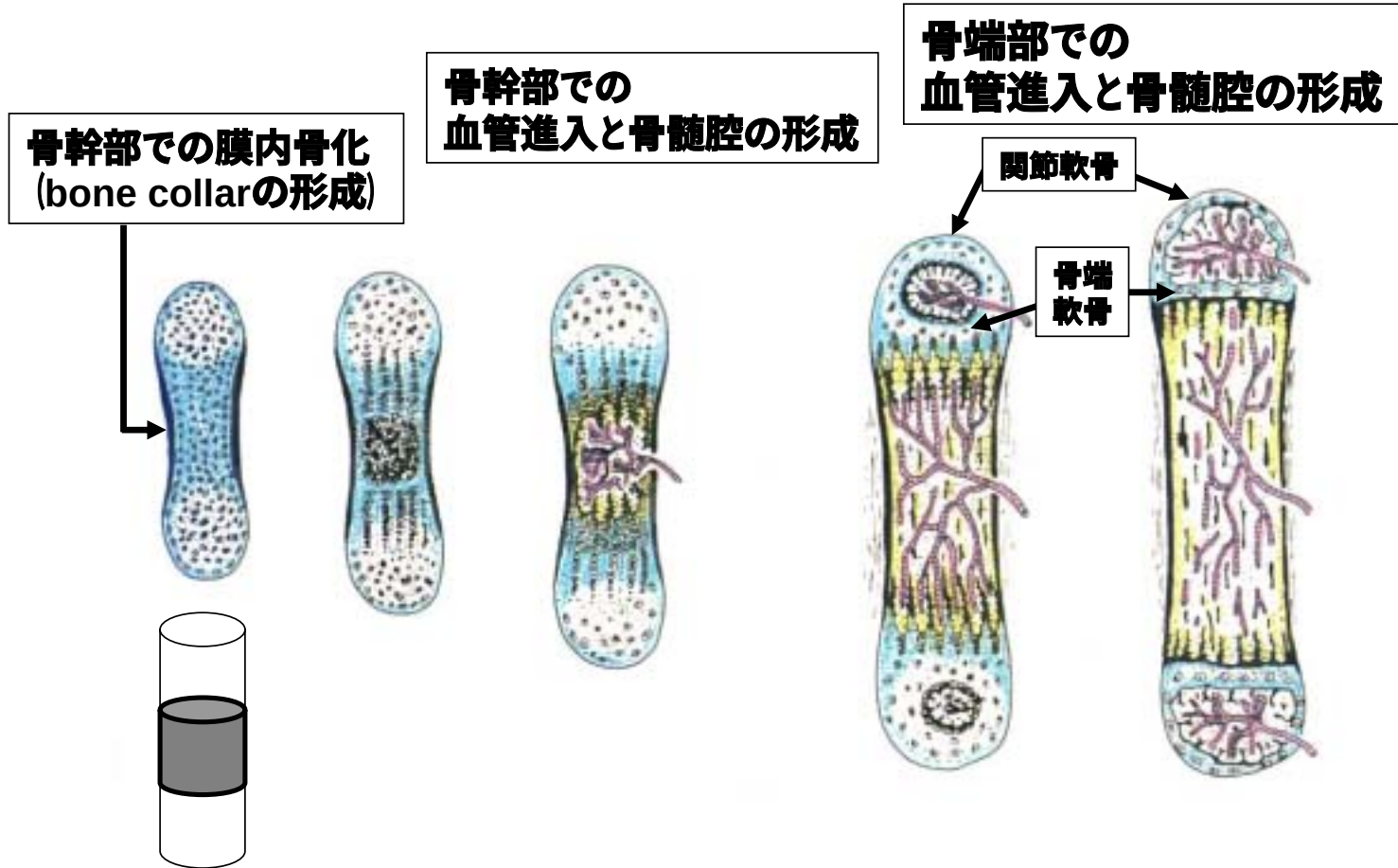




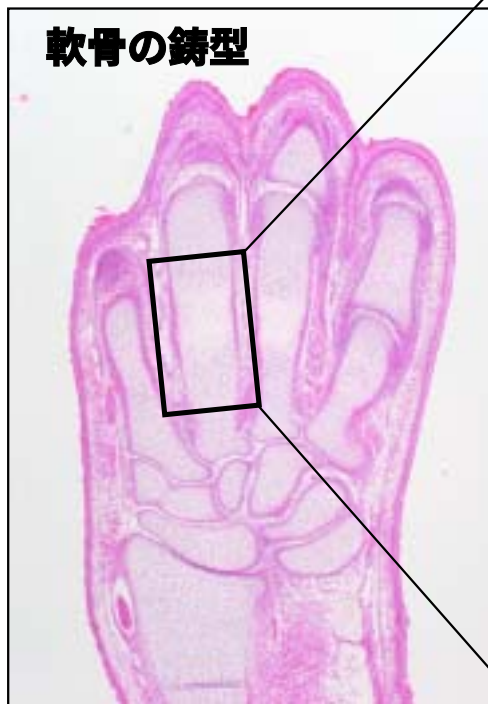
骨の構造 (大腿骨の近位端)



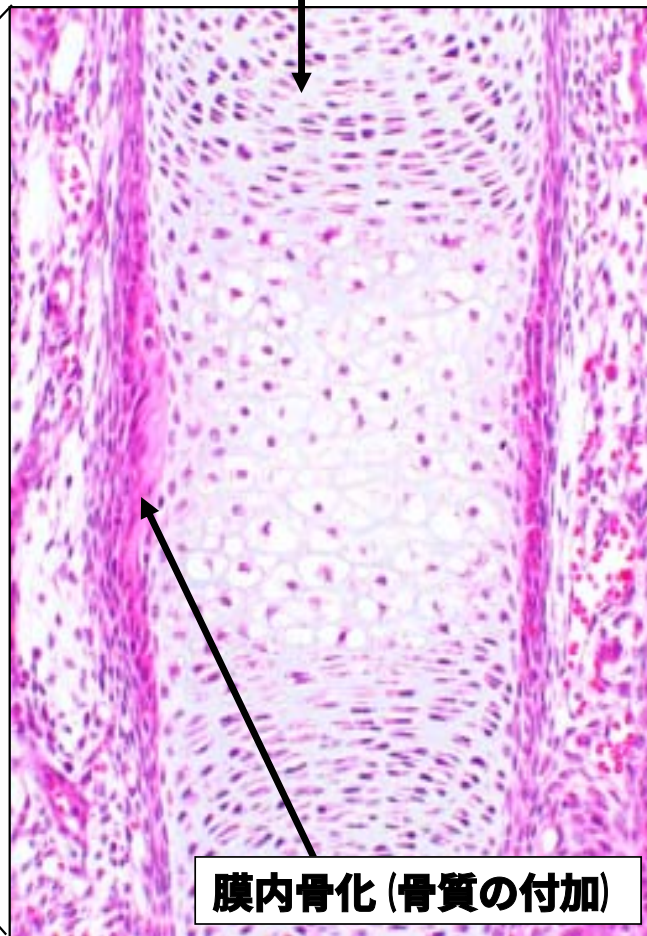
軟骨内骨化 (模式図)



軟骨内骨化 (中手骨)

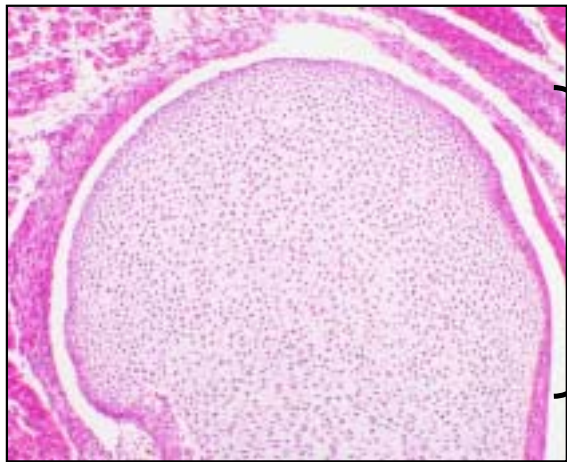


硝子軟骨細胞

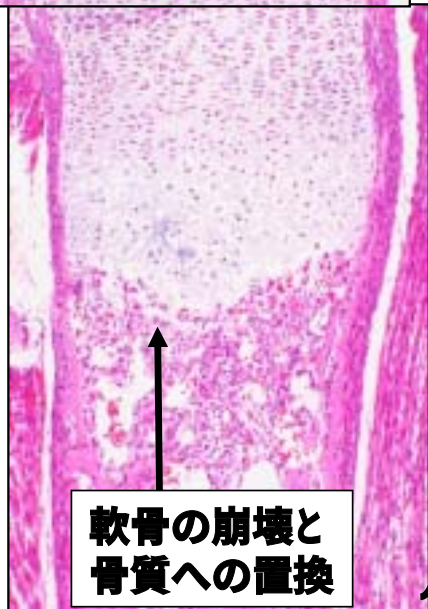


膜内骨化 (骨質の付加)

Hematoxylin-Eosin staining



骨端



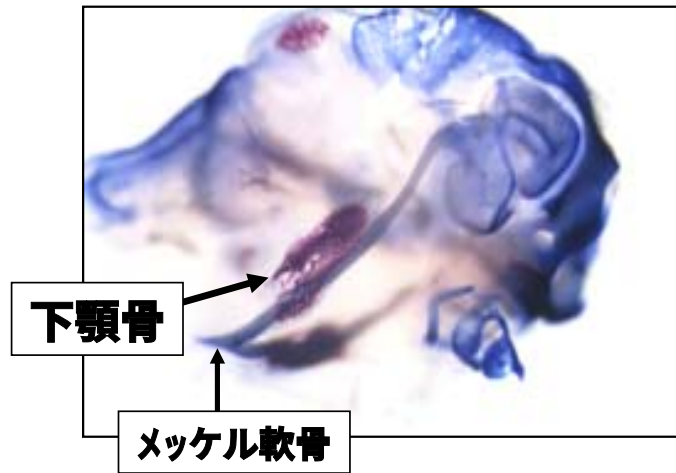
骨幹

軟骨の崩壊と
骨質への置換



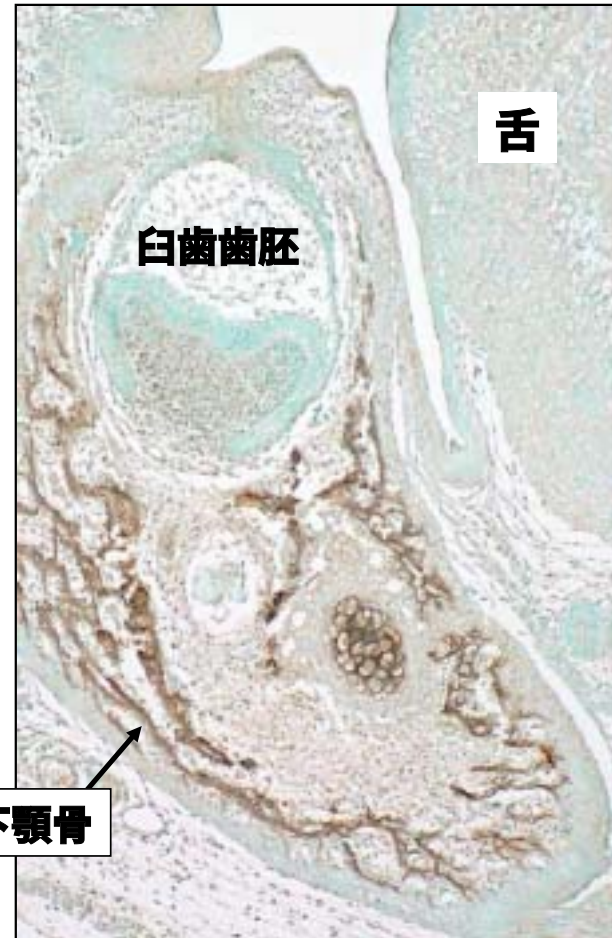
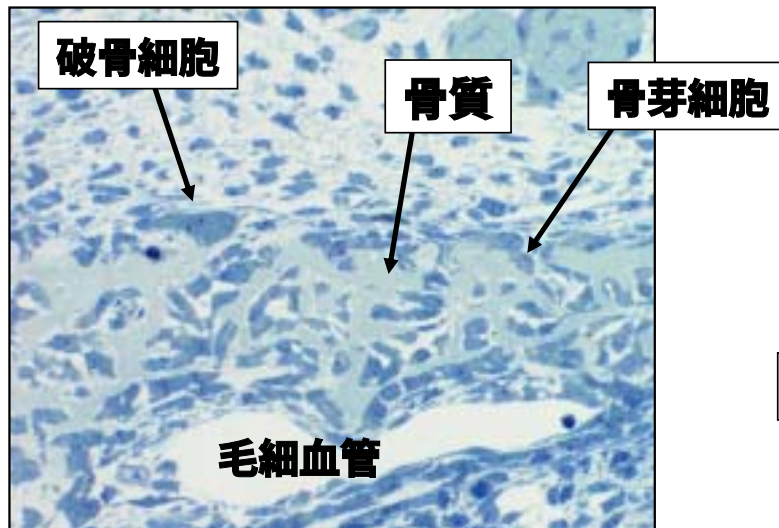
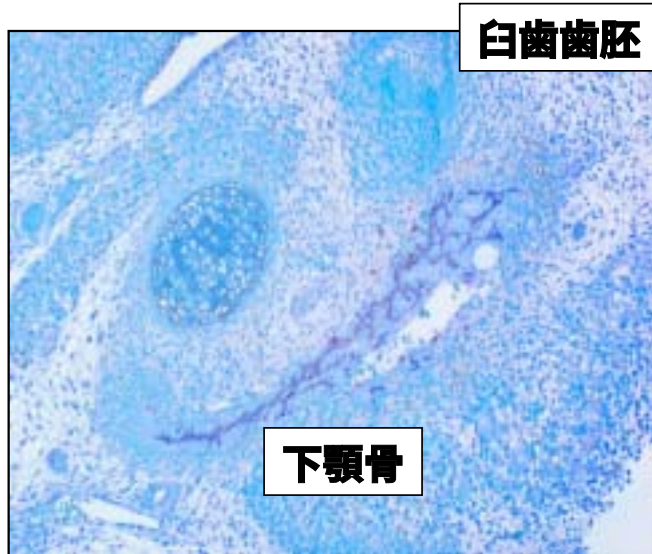
骨端線

膜内骨化（下顎骨の一部）



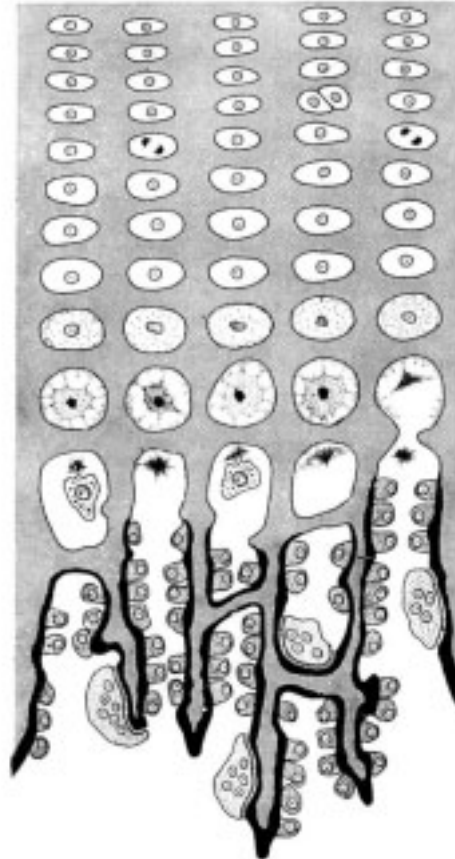
Alizarin Red S / Alcian Blue staining

結合組織への骨質の直接的付加



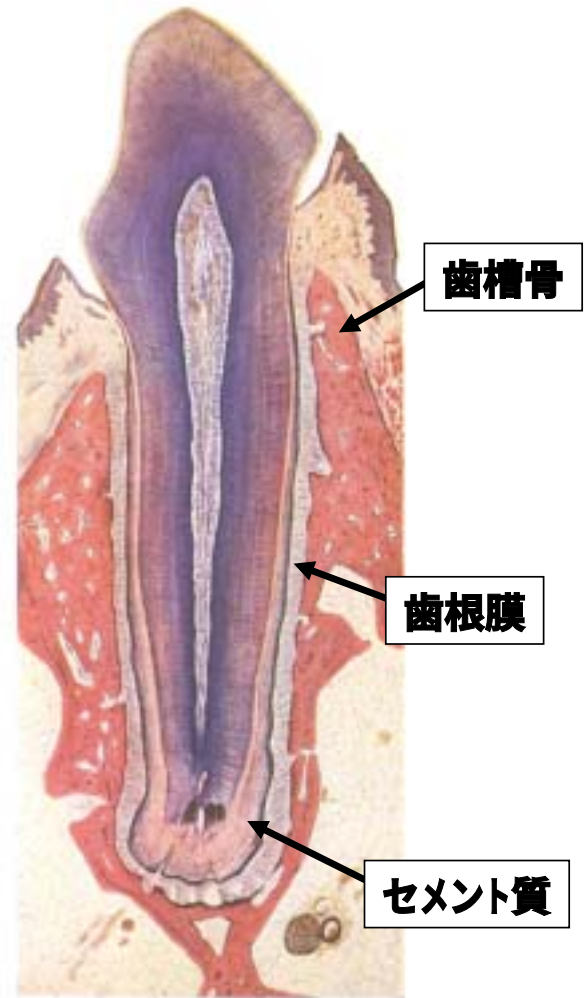
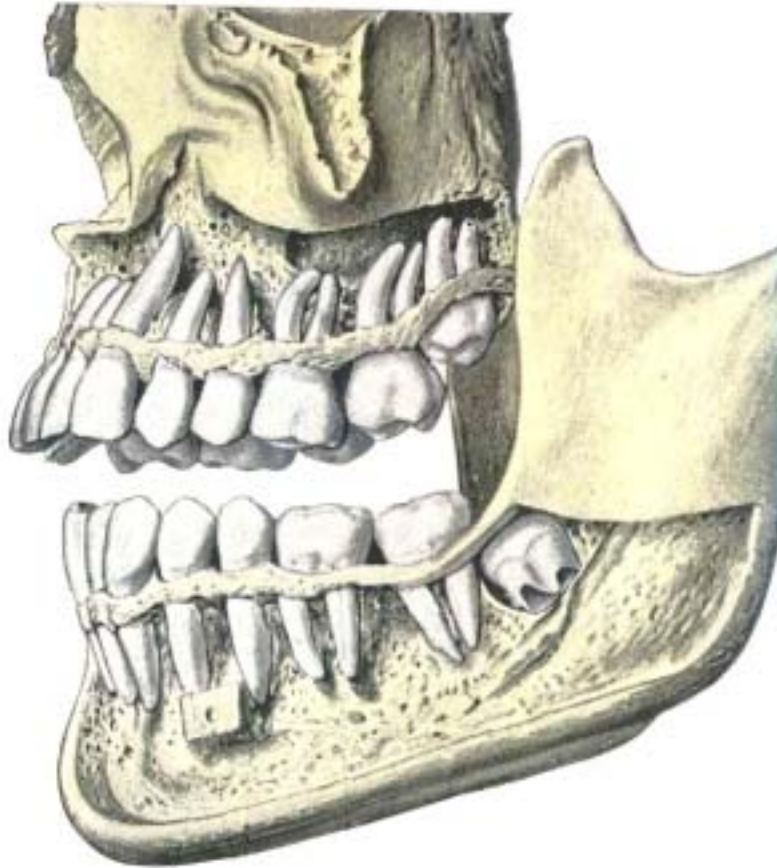
間質成長 (軟骨のみ)

軟骨基質の蓄積

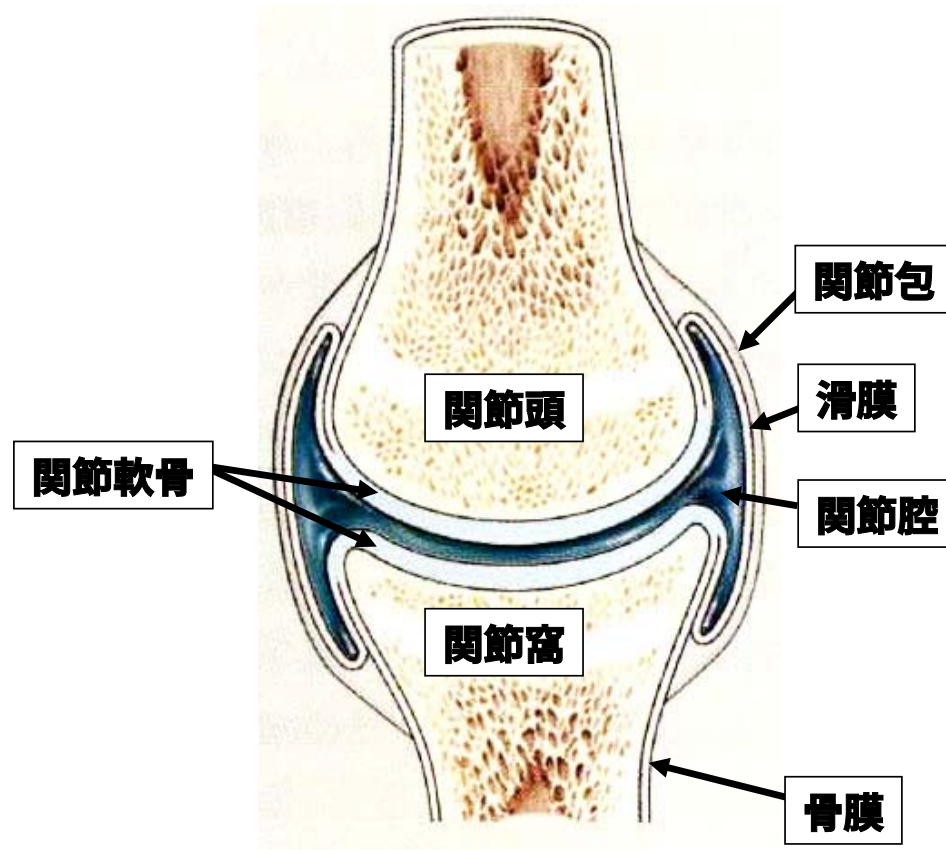


細胞分裂

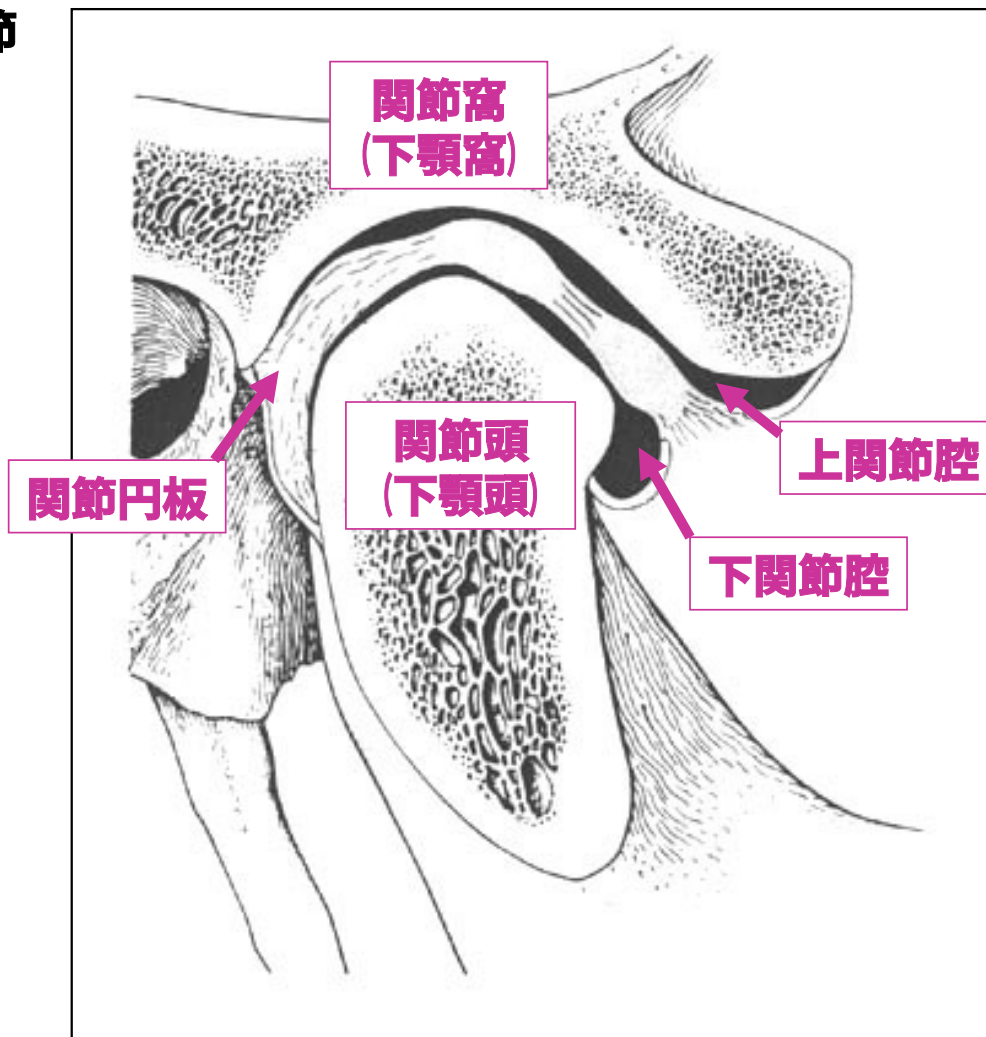
釘 植



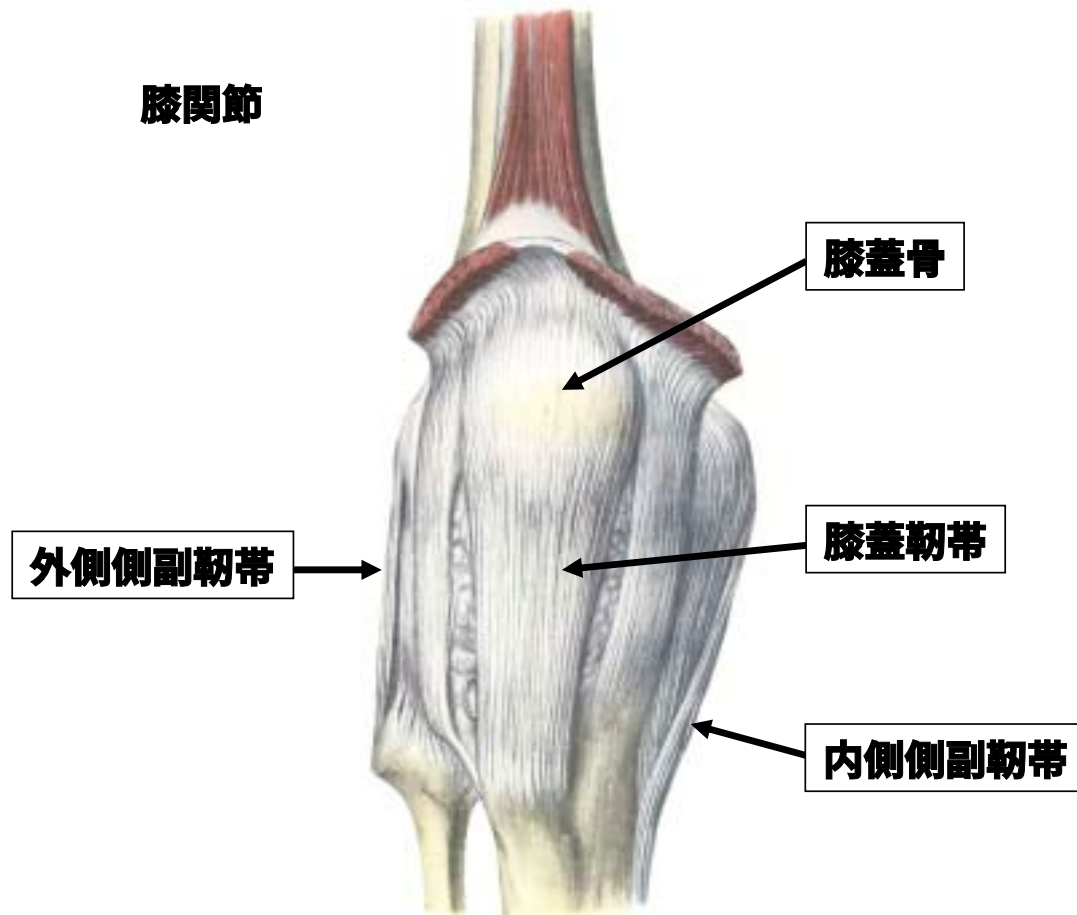
一般的な関節の構造



顎関節

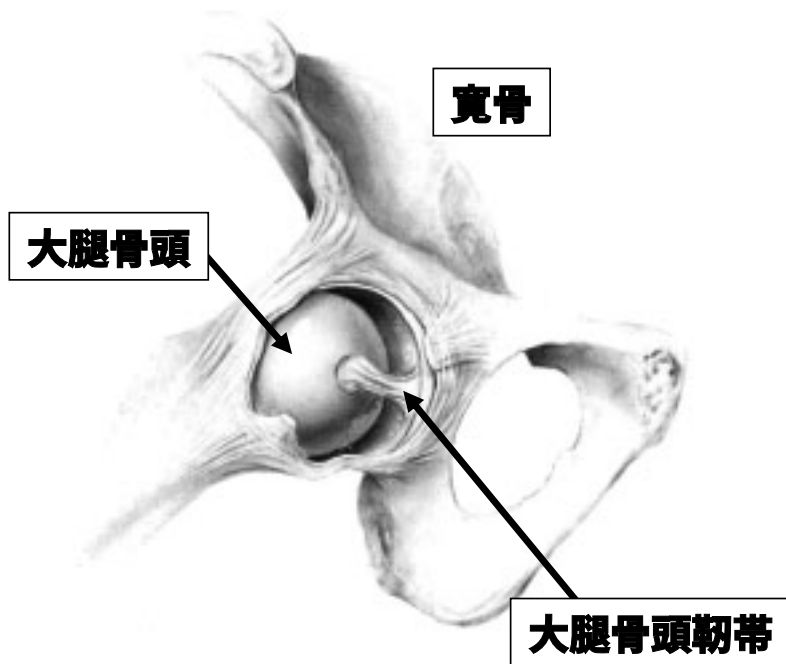


関節包と補助靱帯、副靱帯 (関節外靱帯)

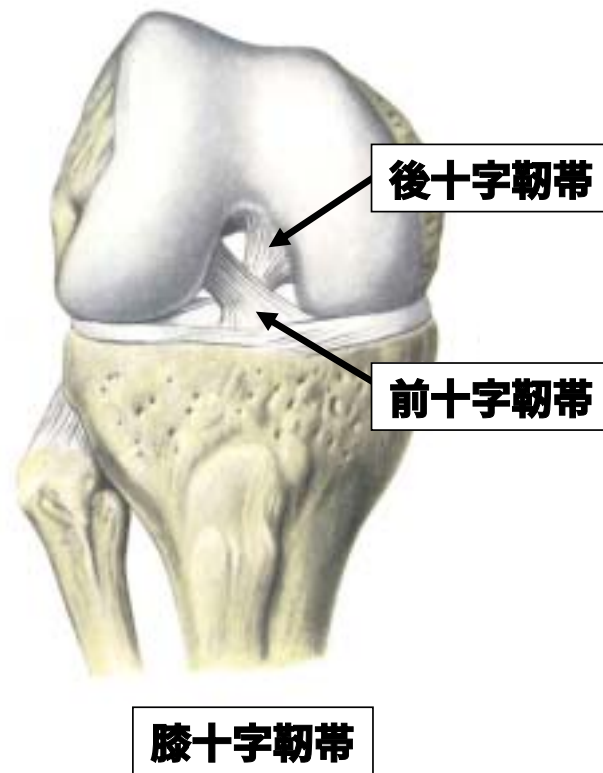


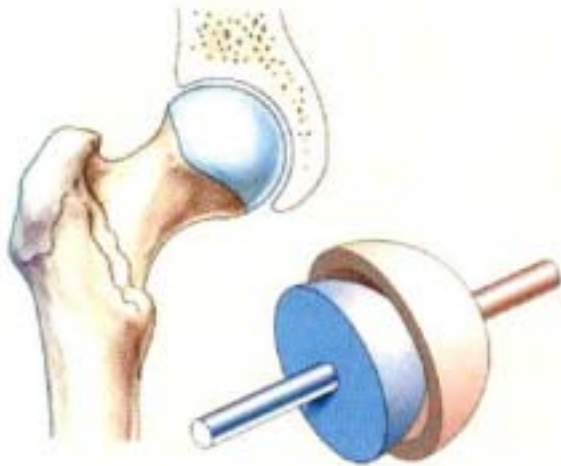
副韧带 (關節内韧带)

股關節

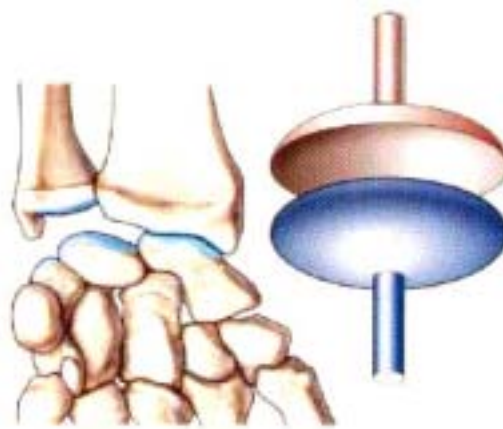


膝關節

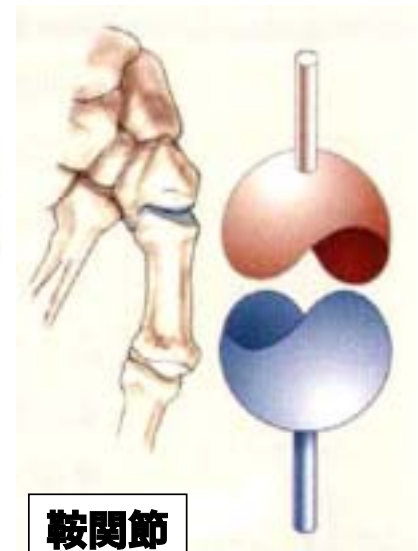




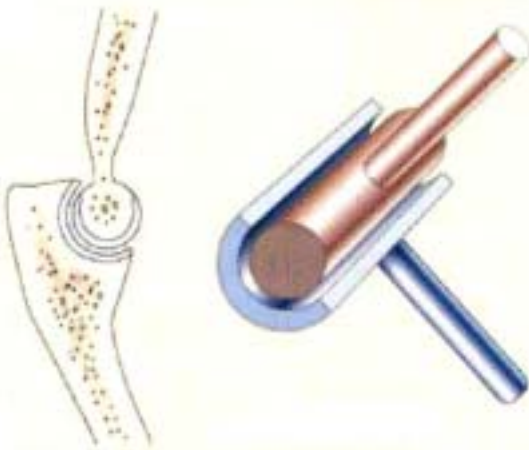
球関節 **股関節**



橢円関節 **手根関節**



鞍関節
手根中手関節



蝶番関節 **腕尺関節**



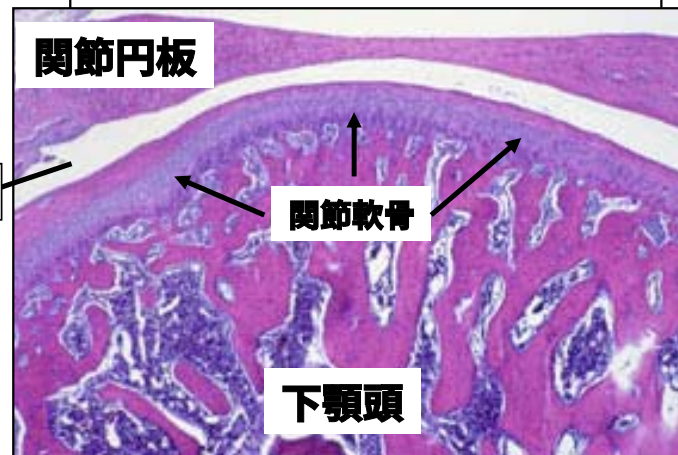
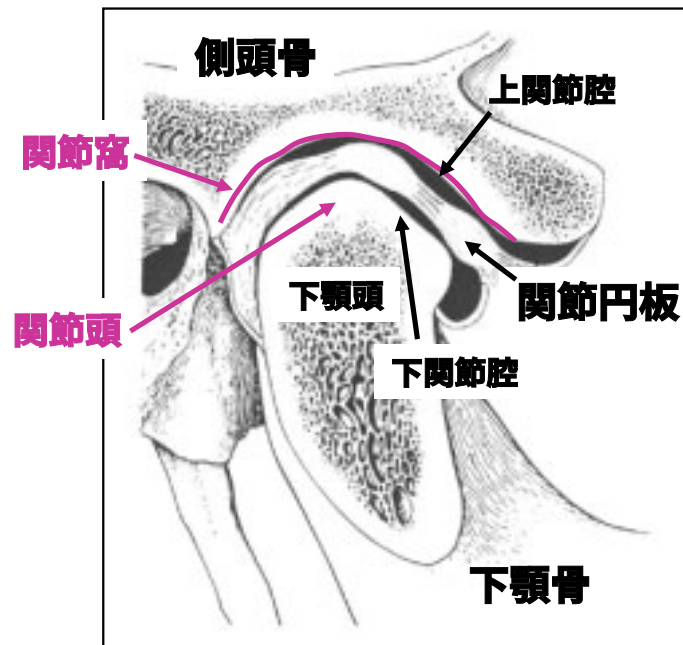
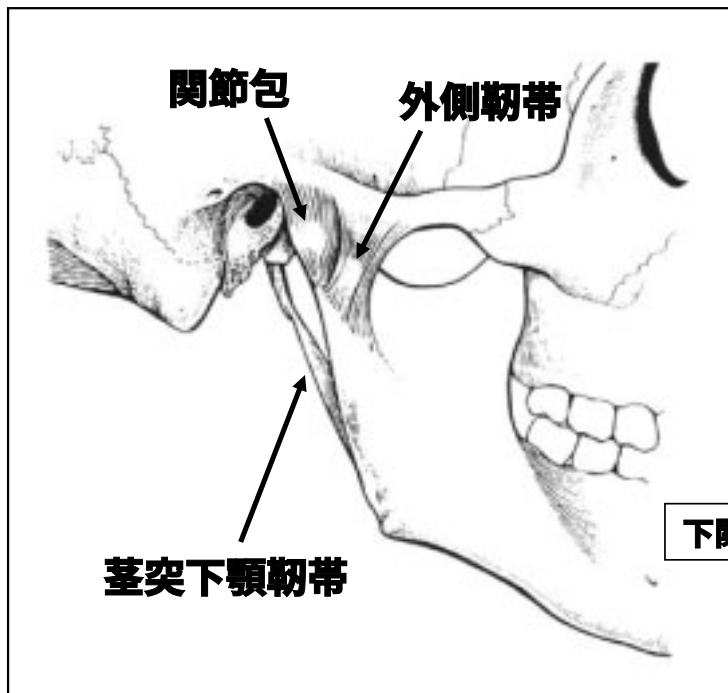
車軸関節



正中環軸関節

関節の構造 (顎関節)

- ・関節頭と関節窩
- ・関節包と靭帯

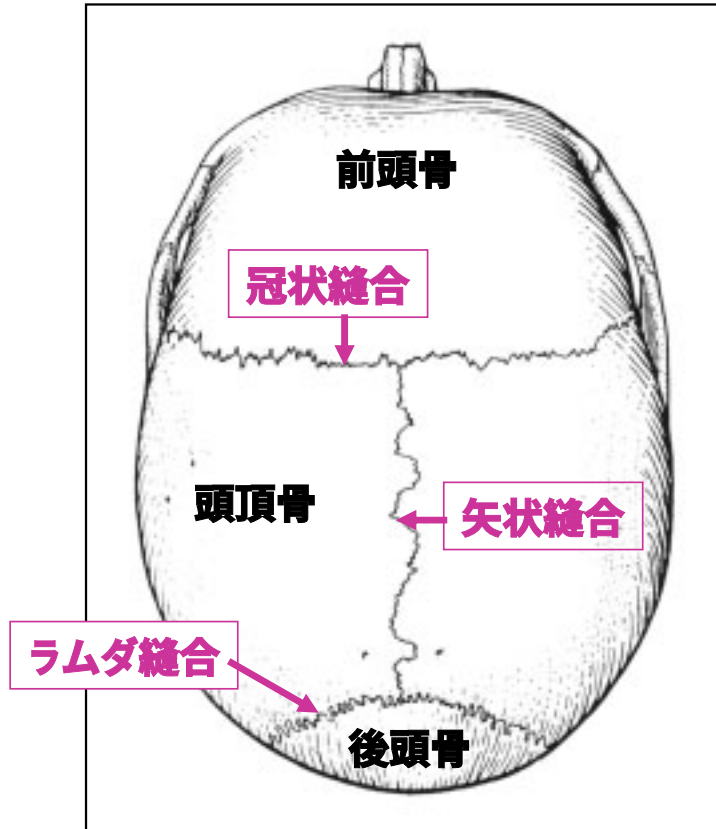


骨 学 各 論

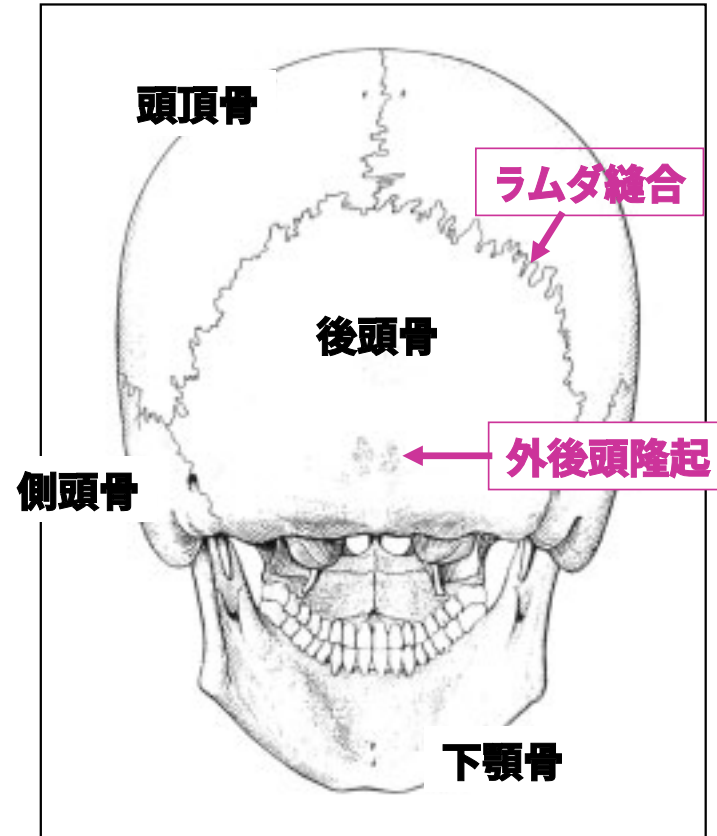
頭 蓋 の 外 景

頭 蓋

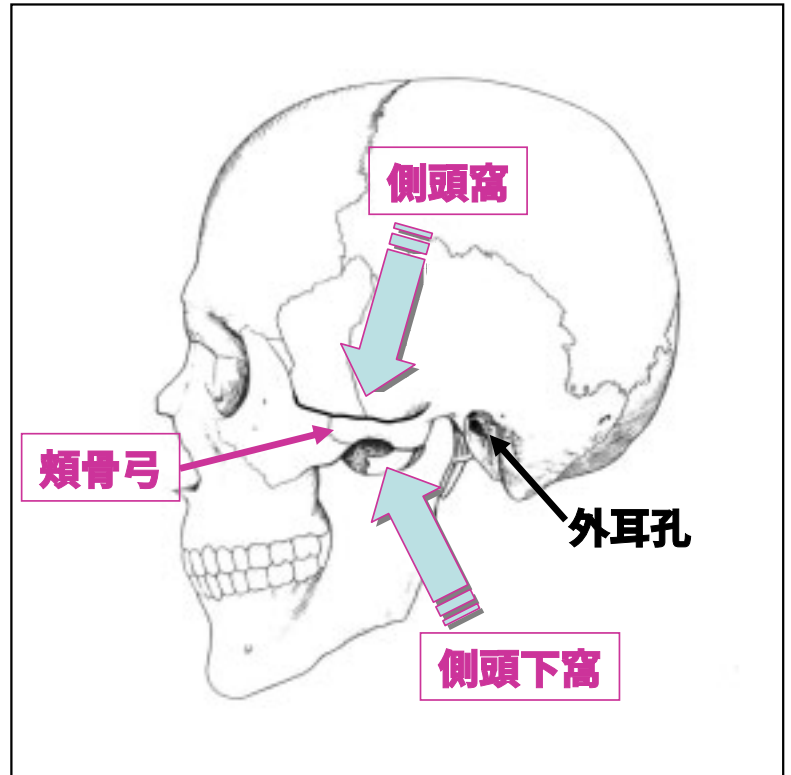
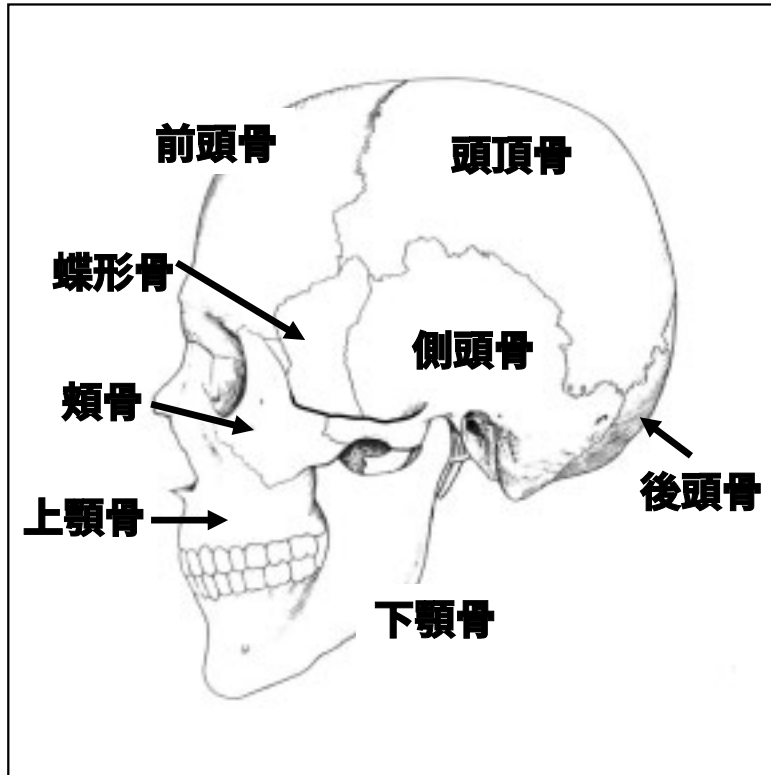
上 面



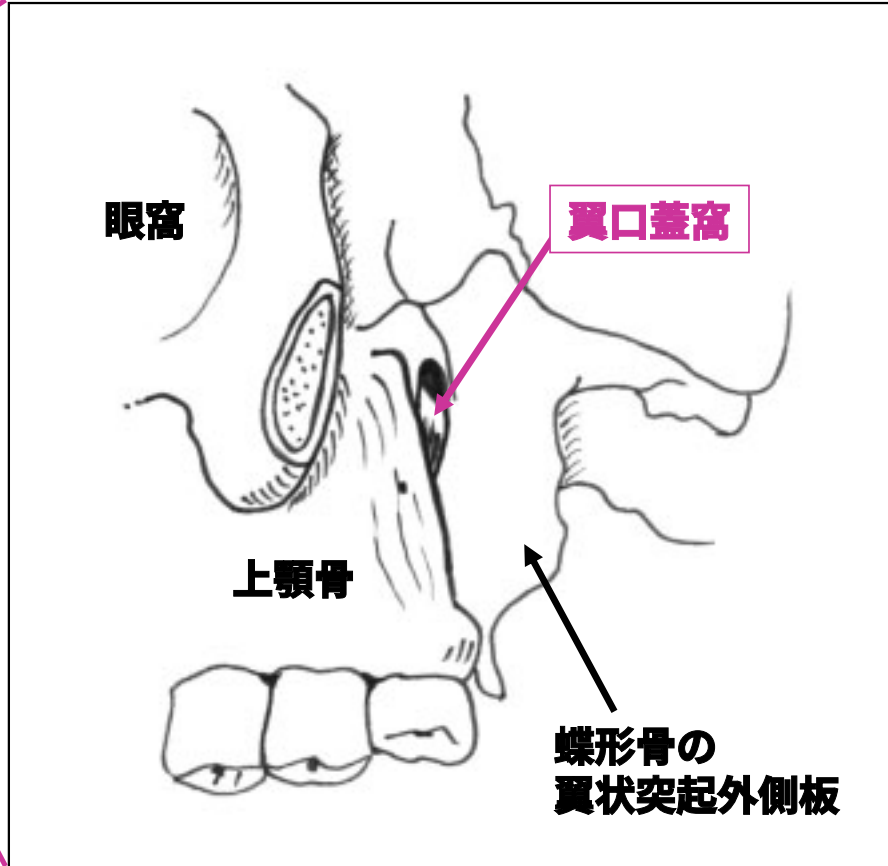
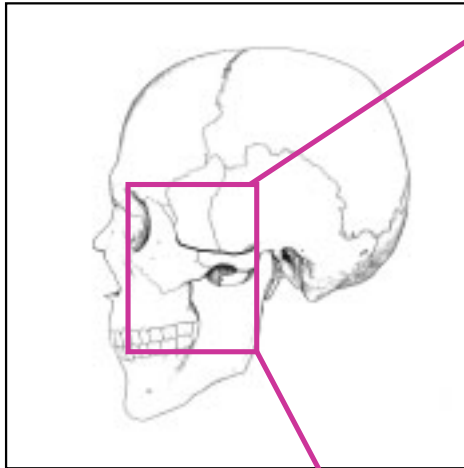
後 面



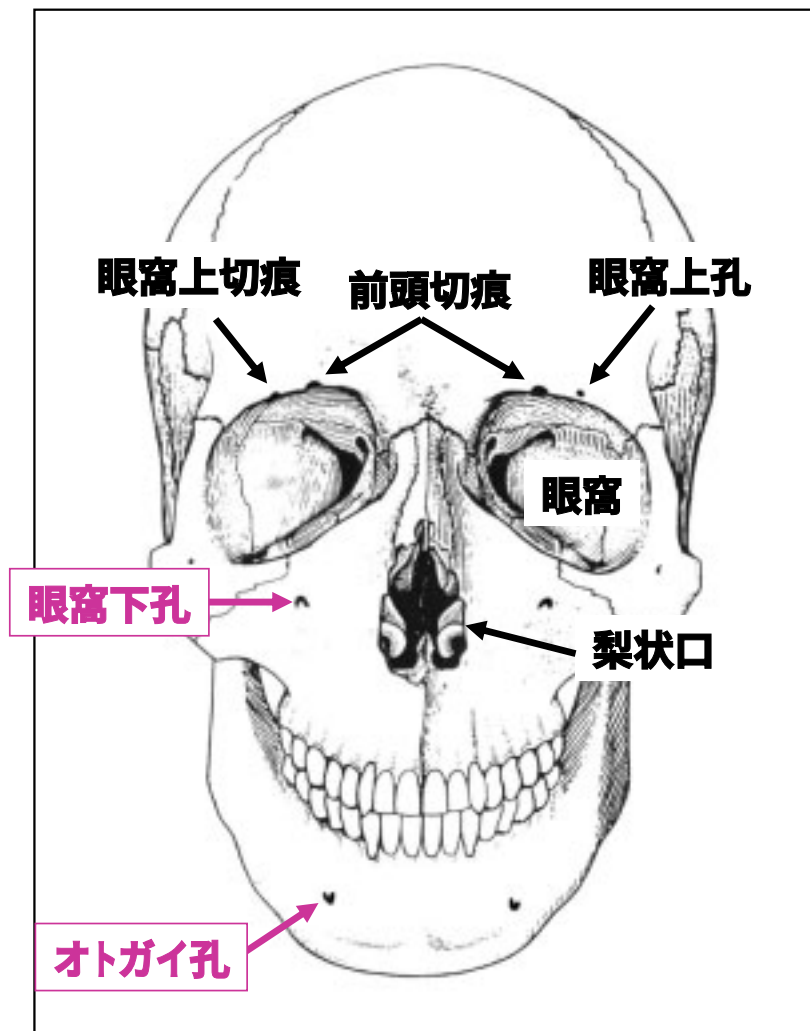
側 面



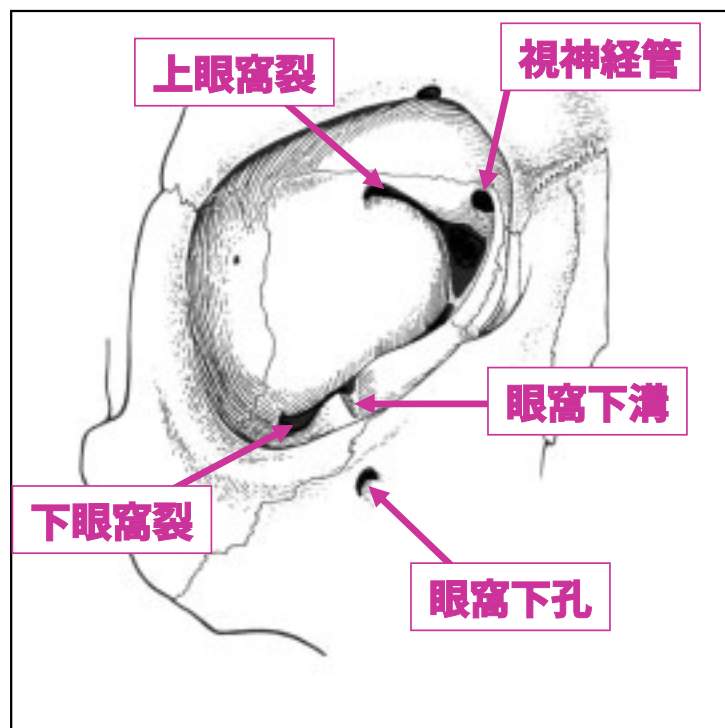
翼口蓋窩



前 面



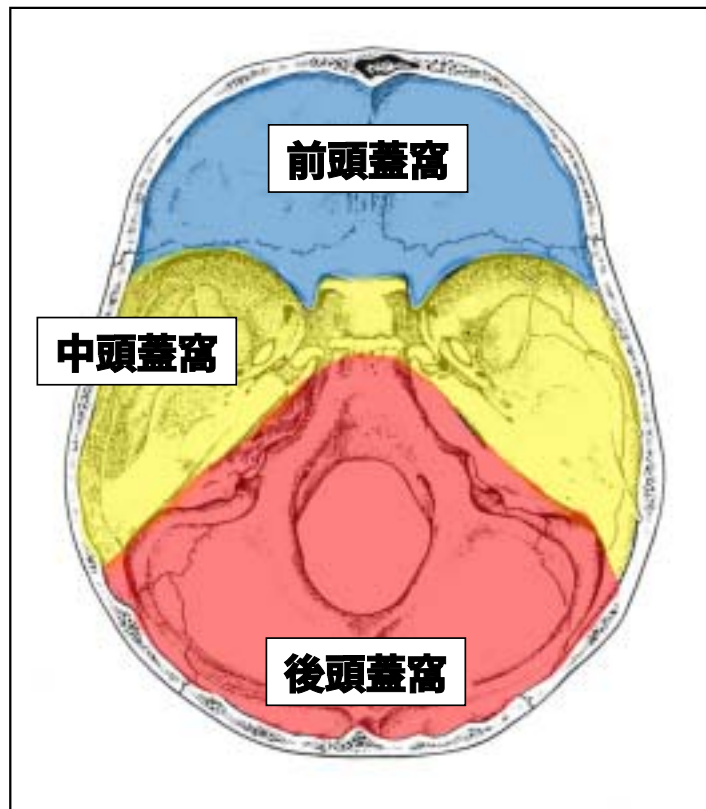
眼 窩 (右側)



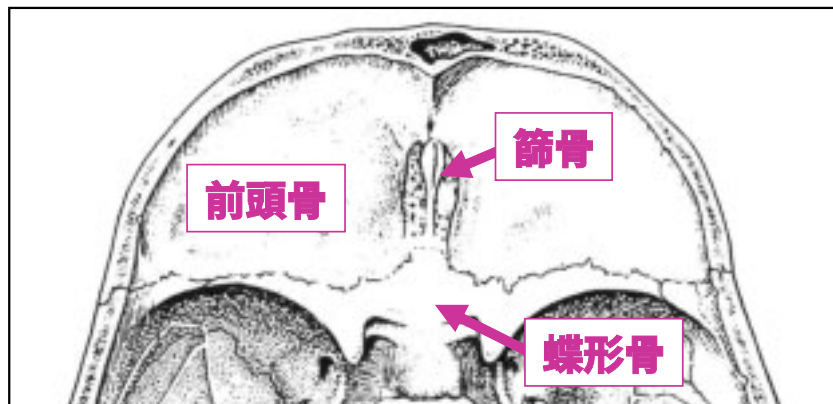
脳 頭 蓋 の 構 造

内頭蓋底の構造

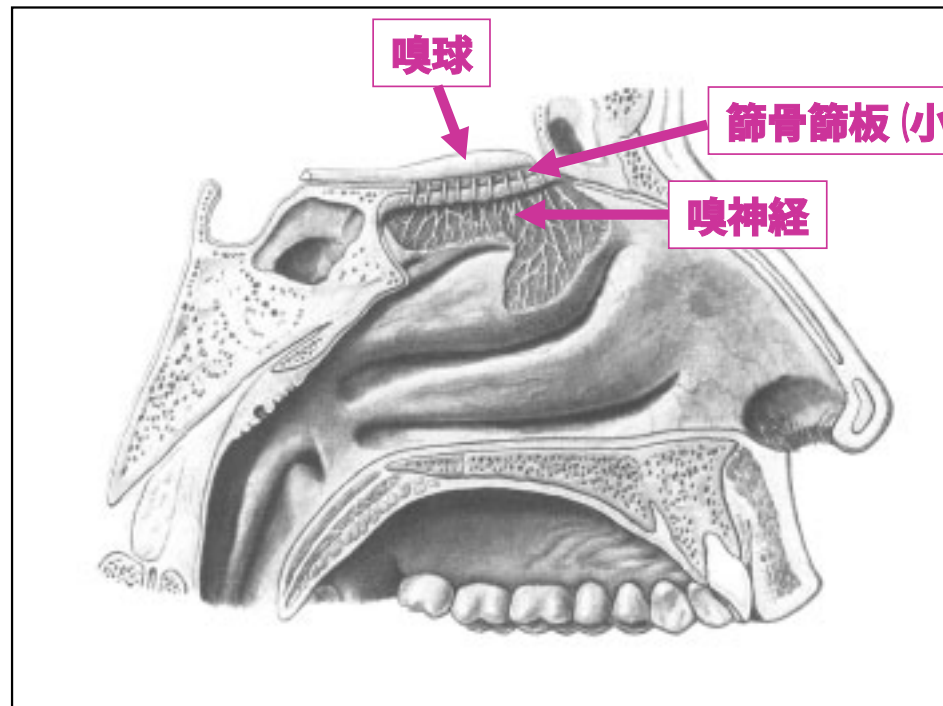
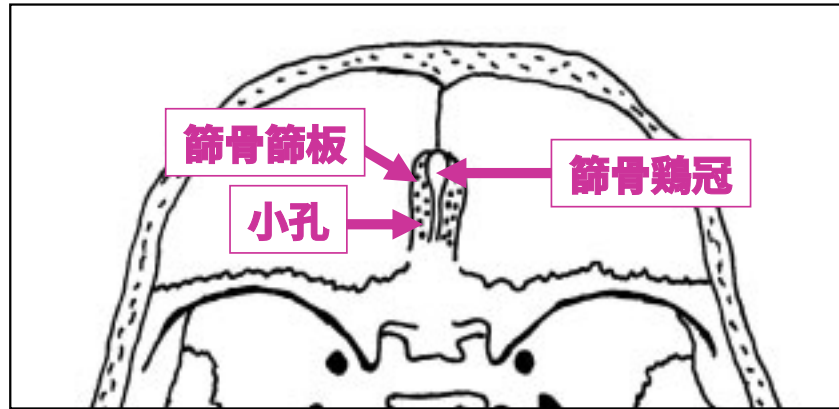
內頭蓋底



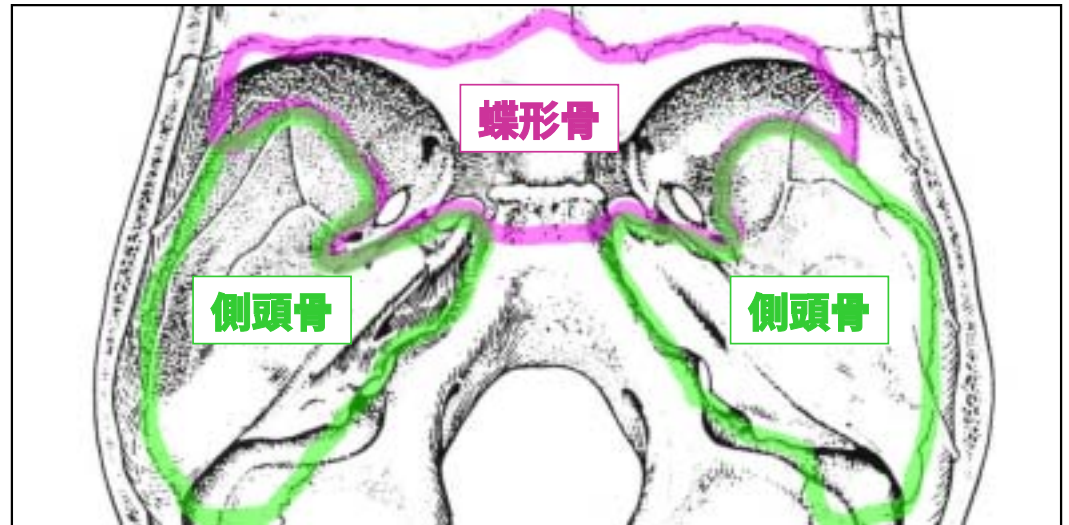
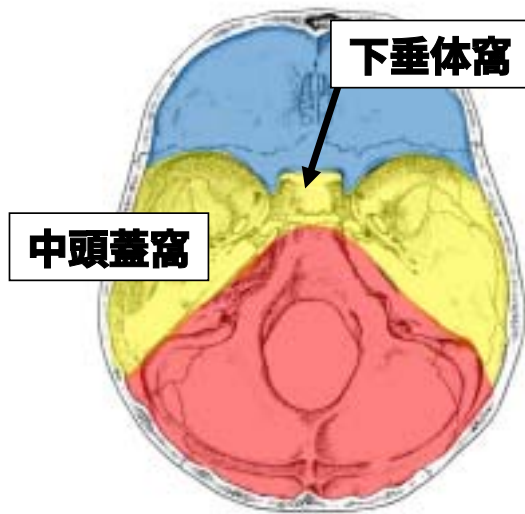
前頭蓋窩



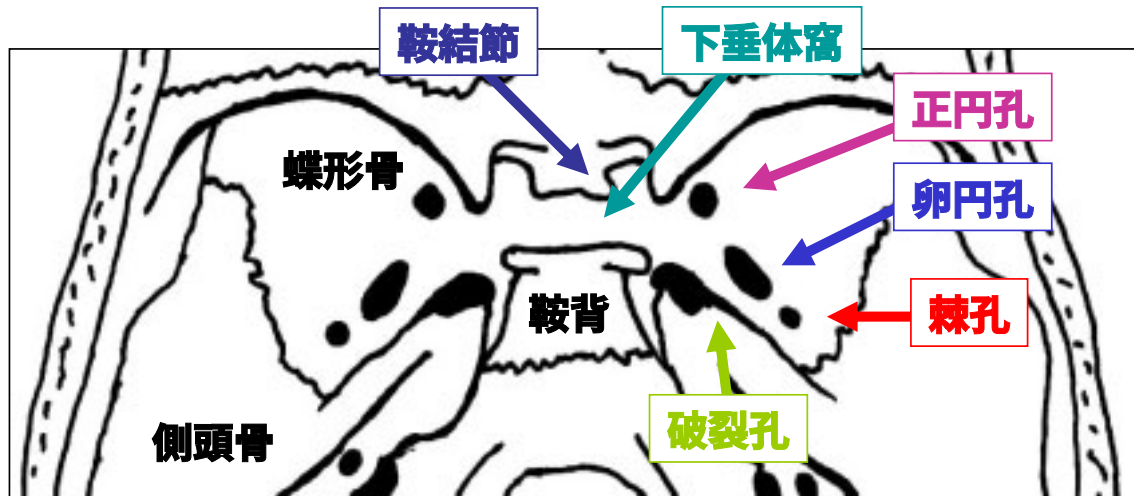
前頭蓋窩

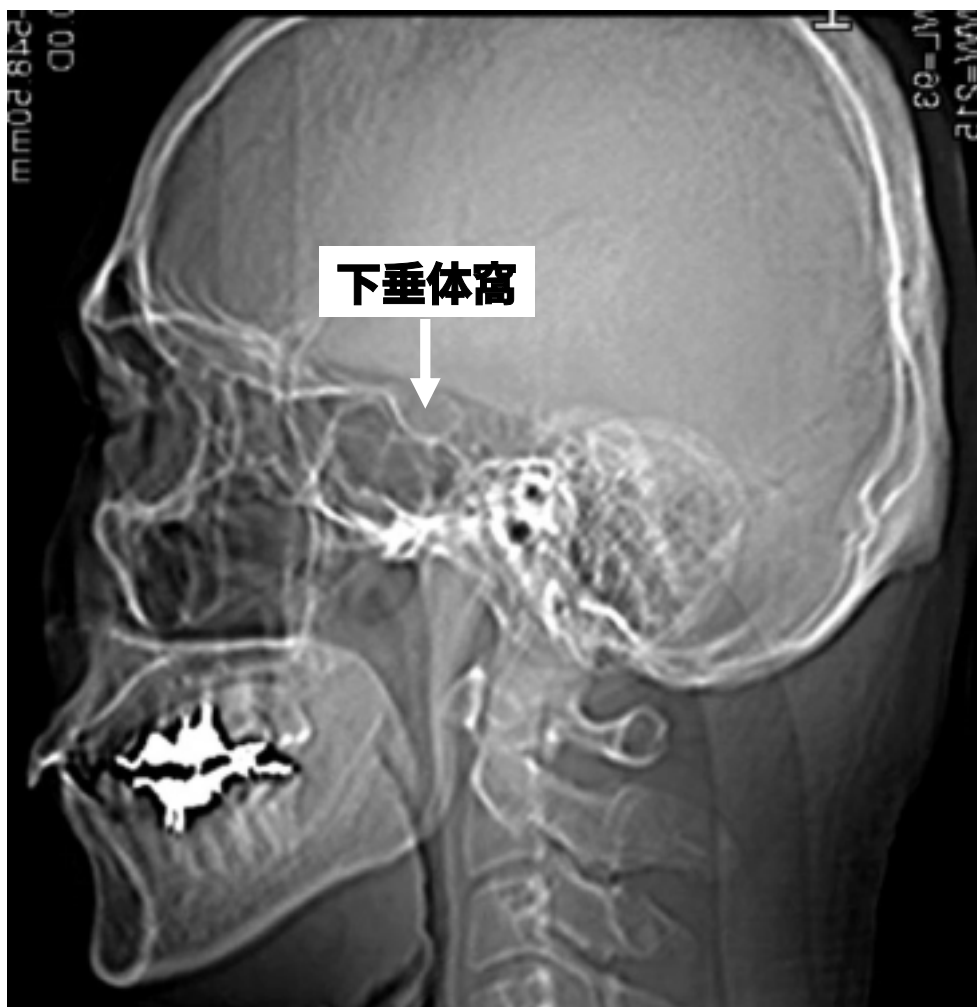


中頭蓋窩

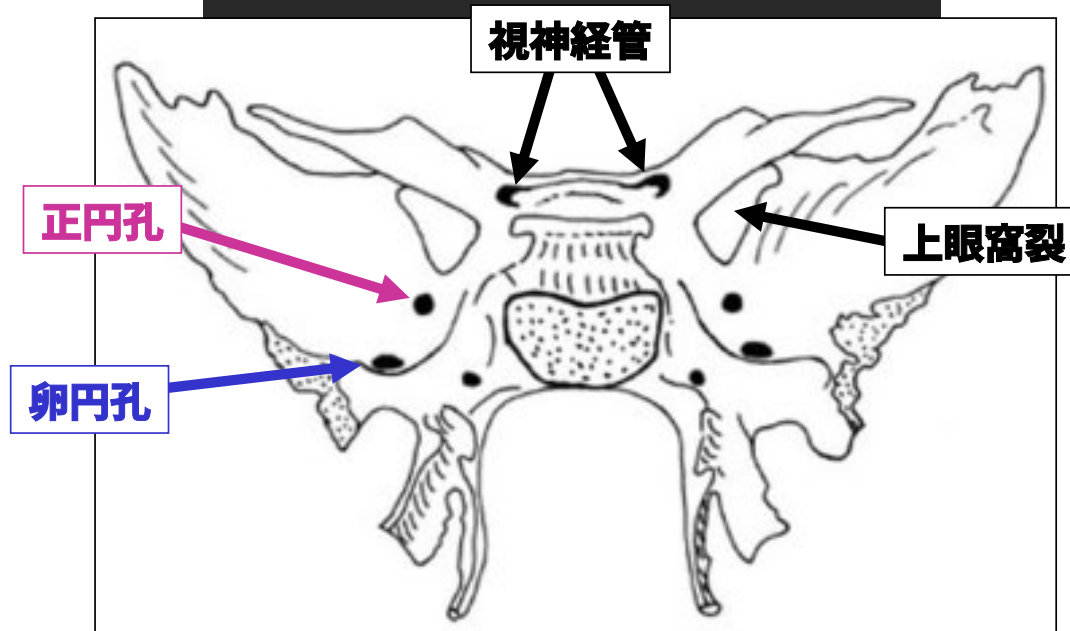


中頭蓋窩

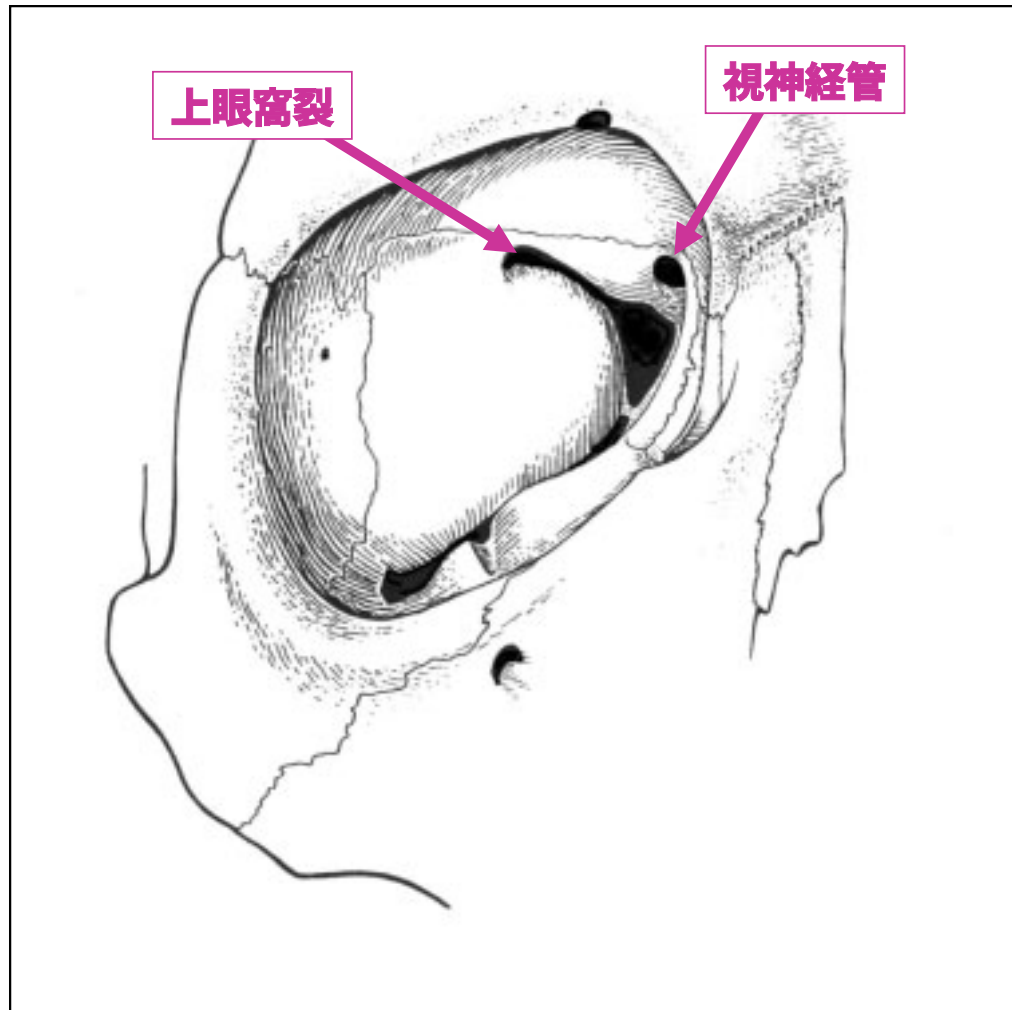




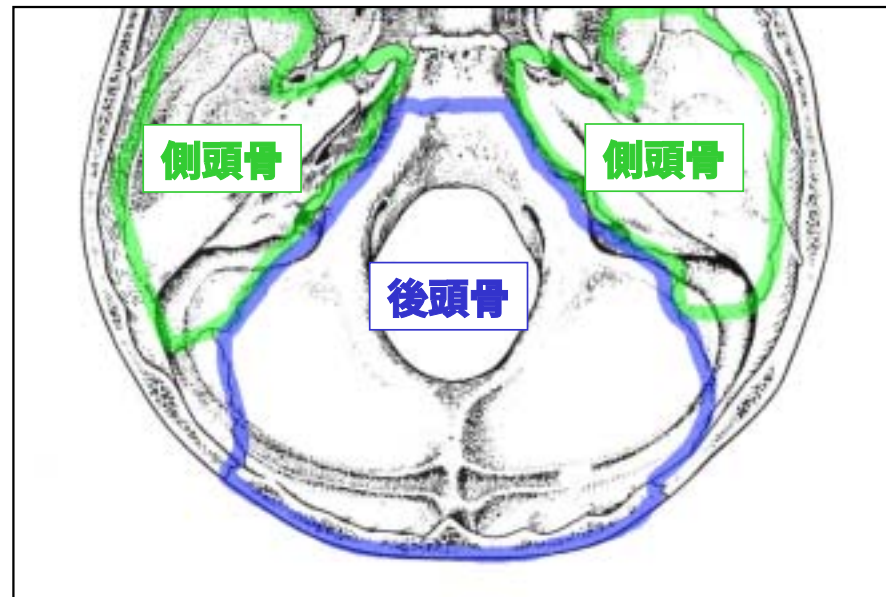
蝶形骨の 後方より



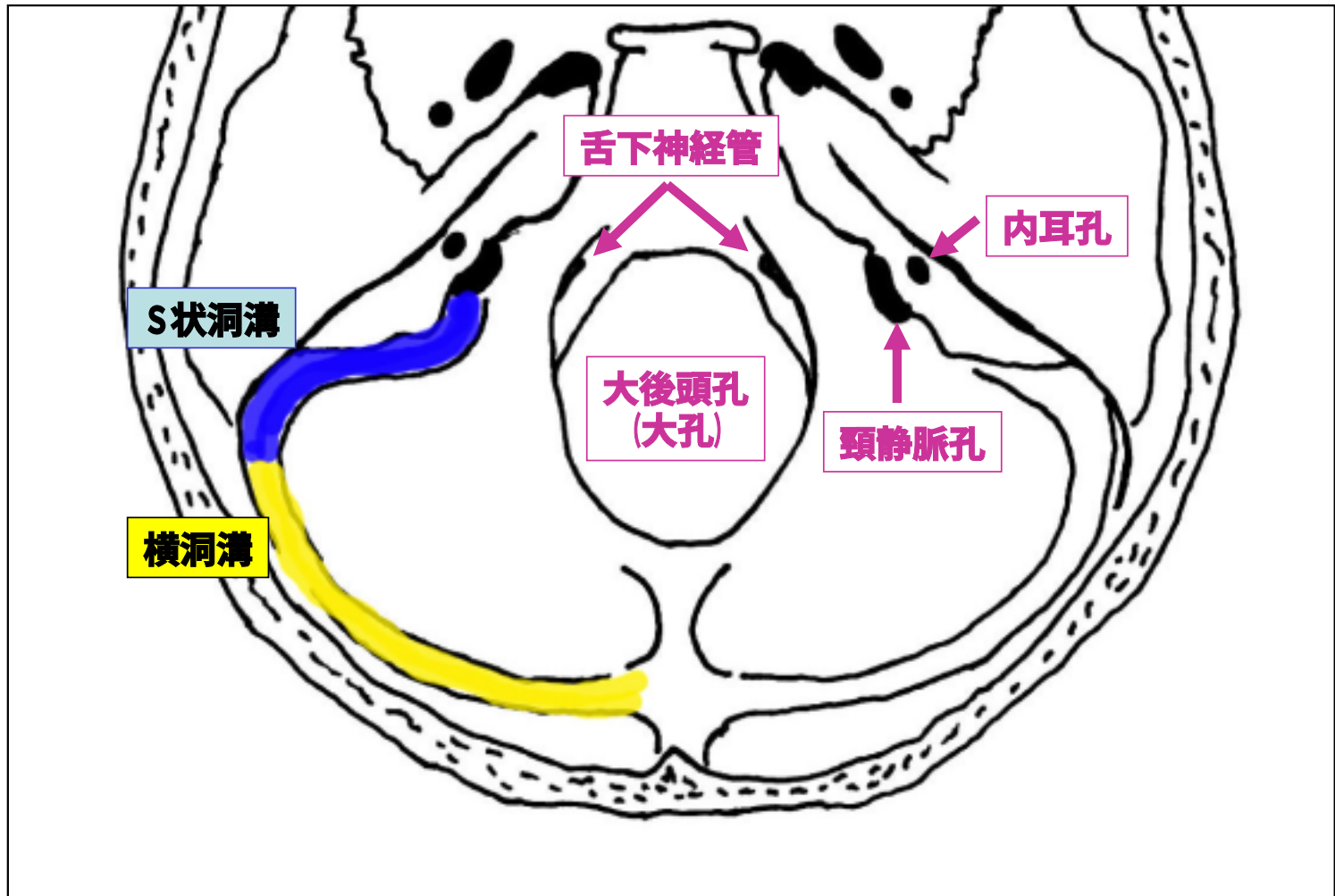
右側の眼窩



後頭蓋窩

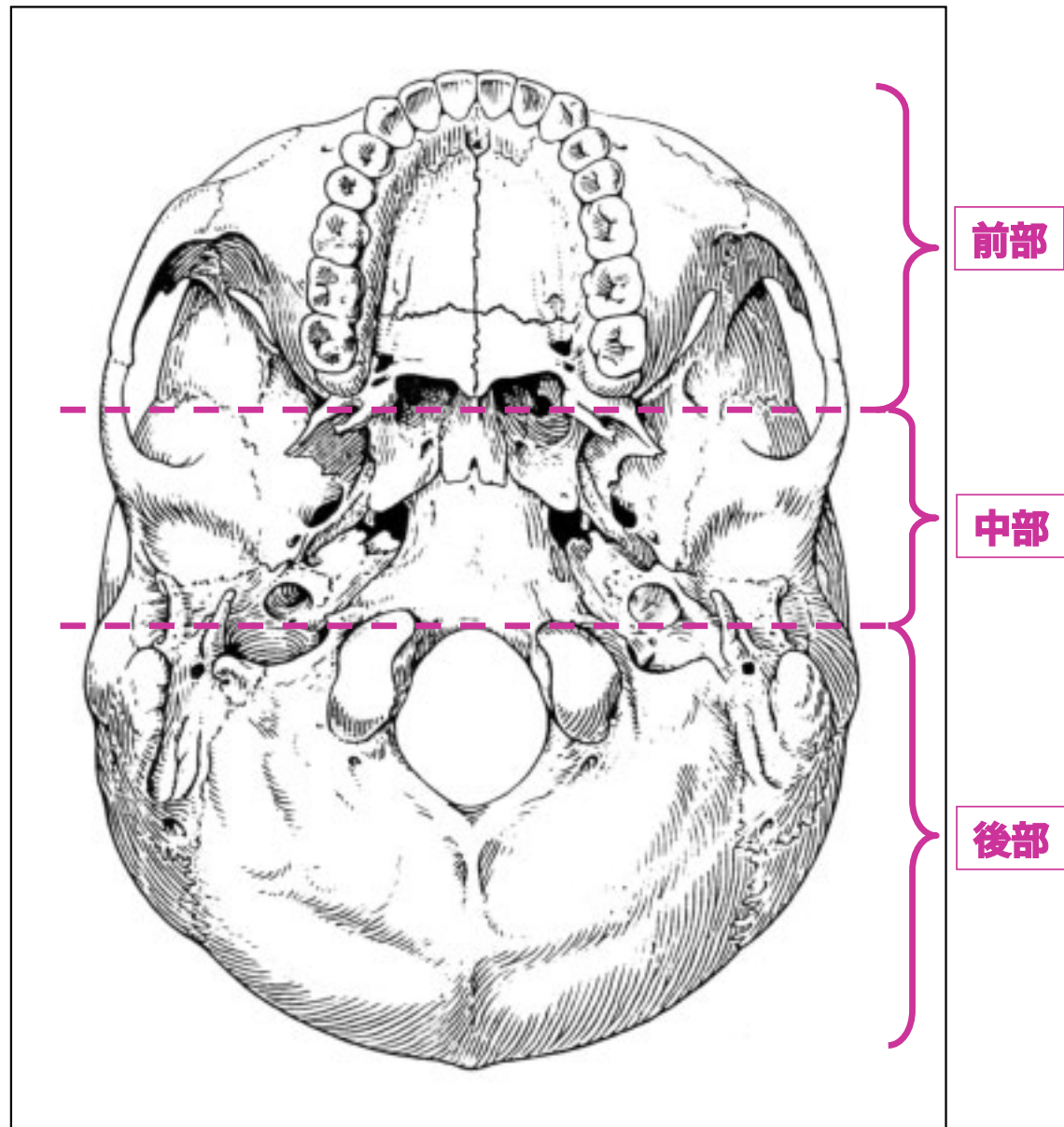


後頭蓋窩



外頭蓋底の構造

外頭蓋底



外頭蓋底 前部



骨口蓋

後鼻孔

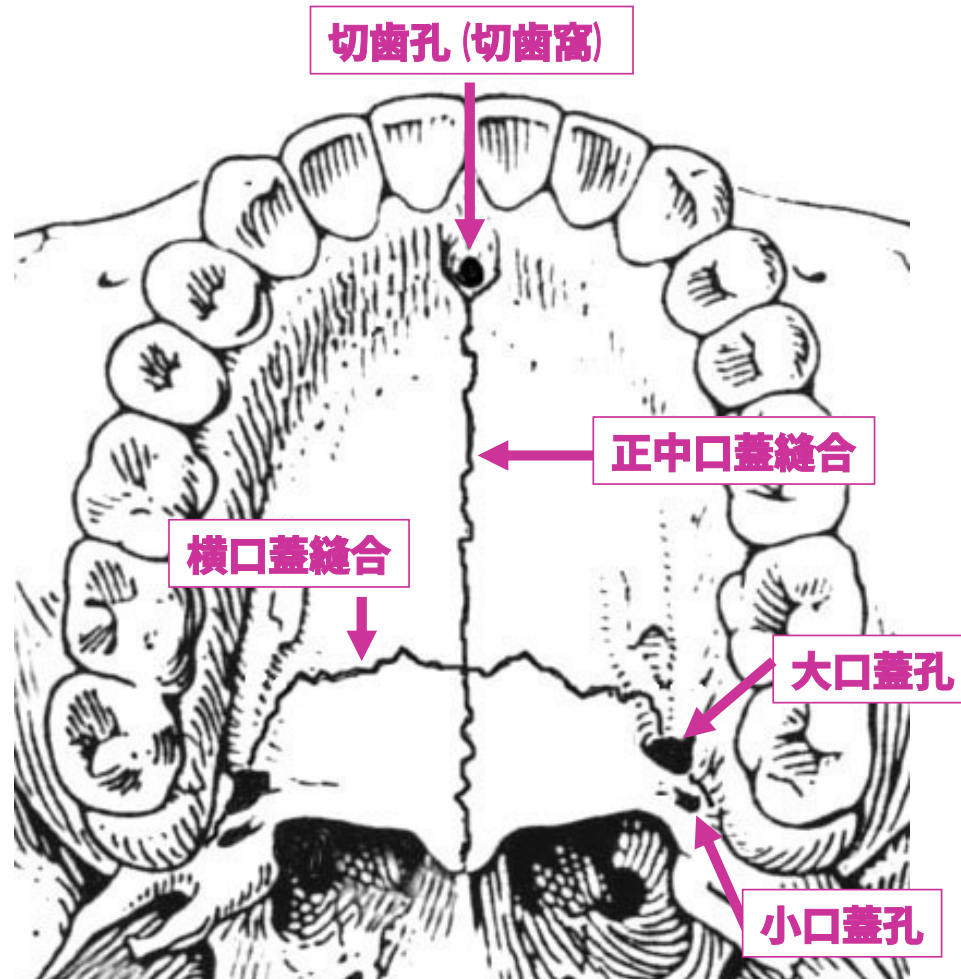


上顎骨

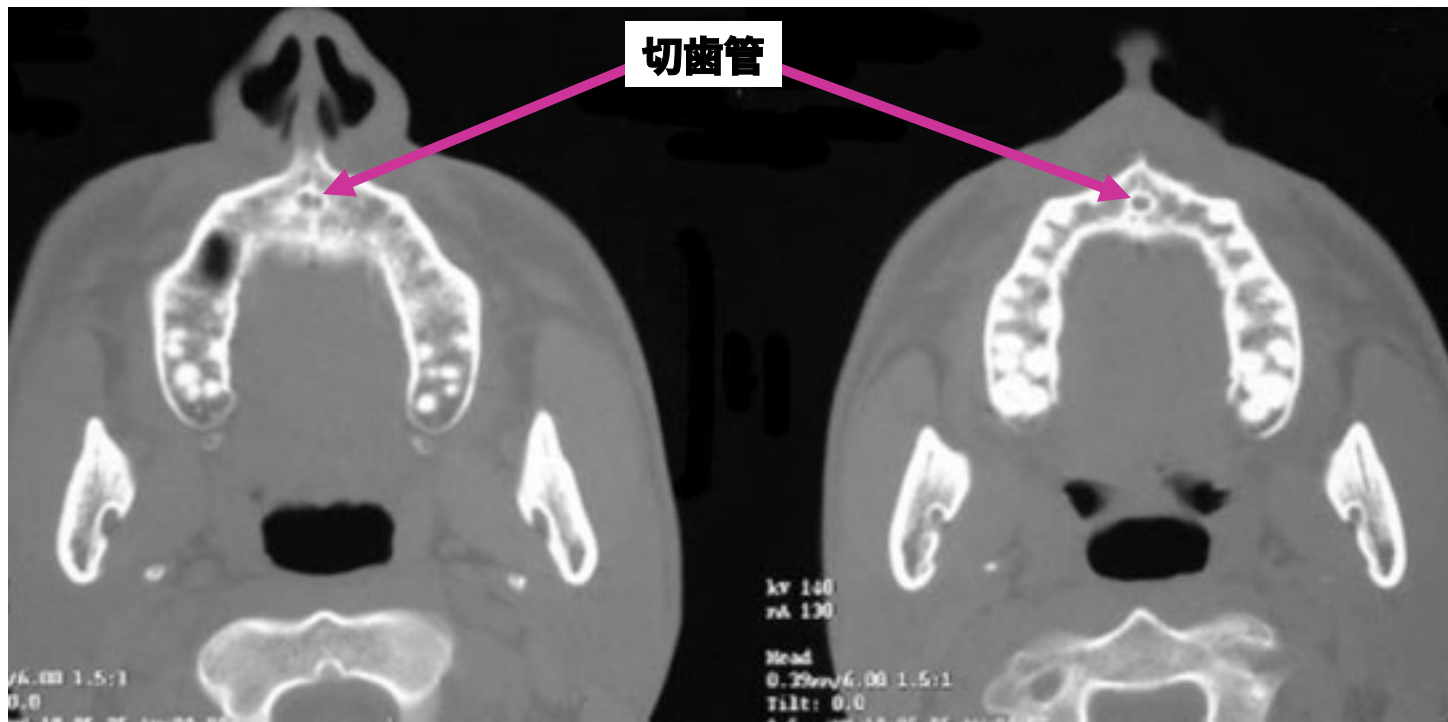
上顎骨

口蓋骨

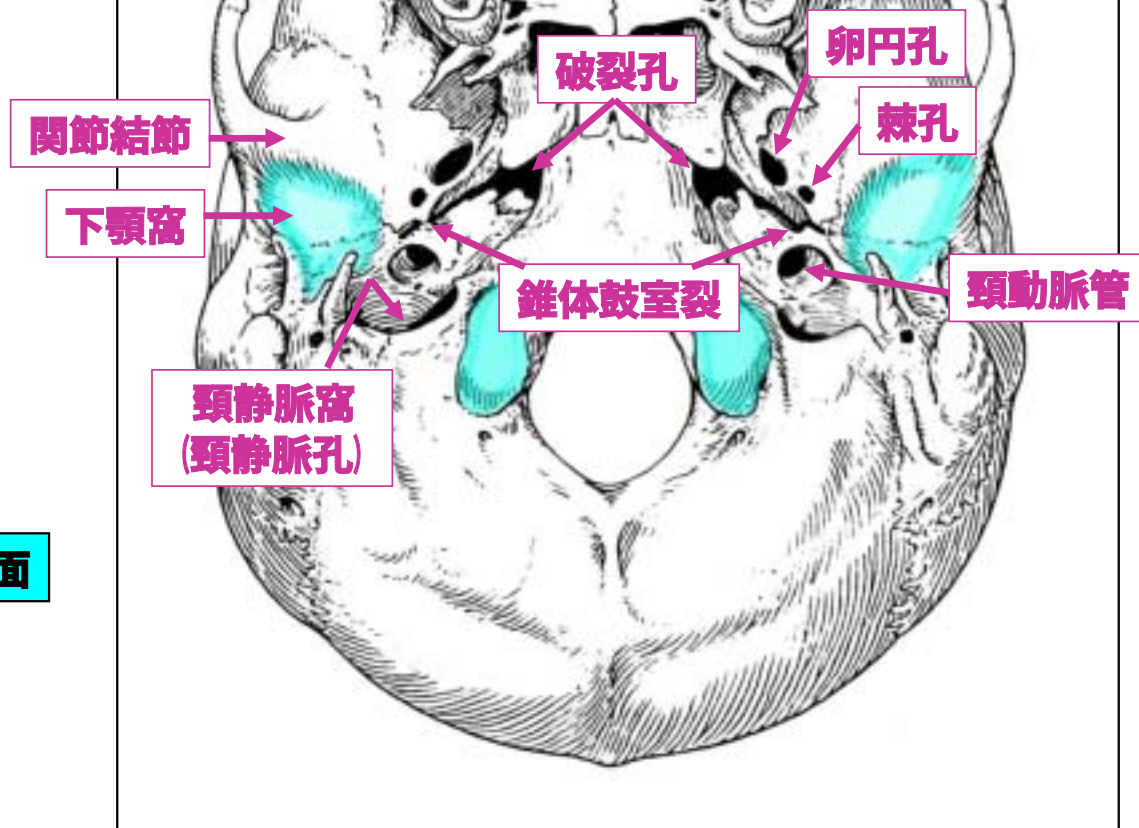
骨口蓋の構造



切齒管



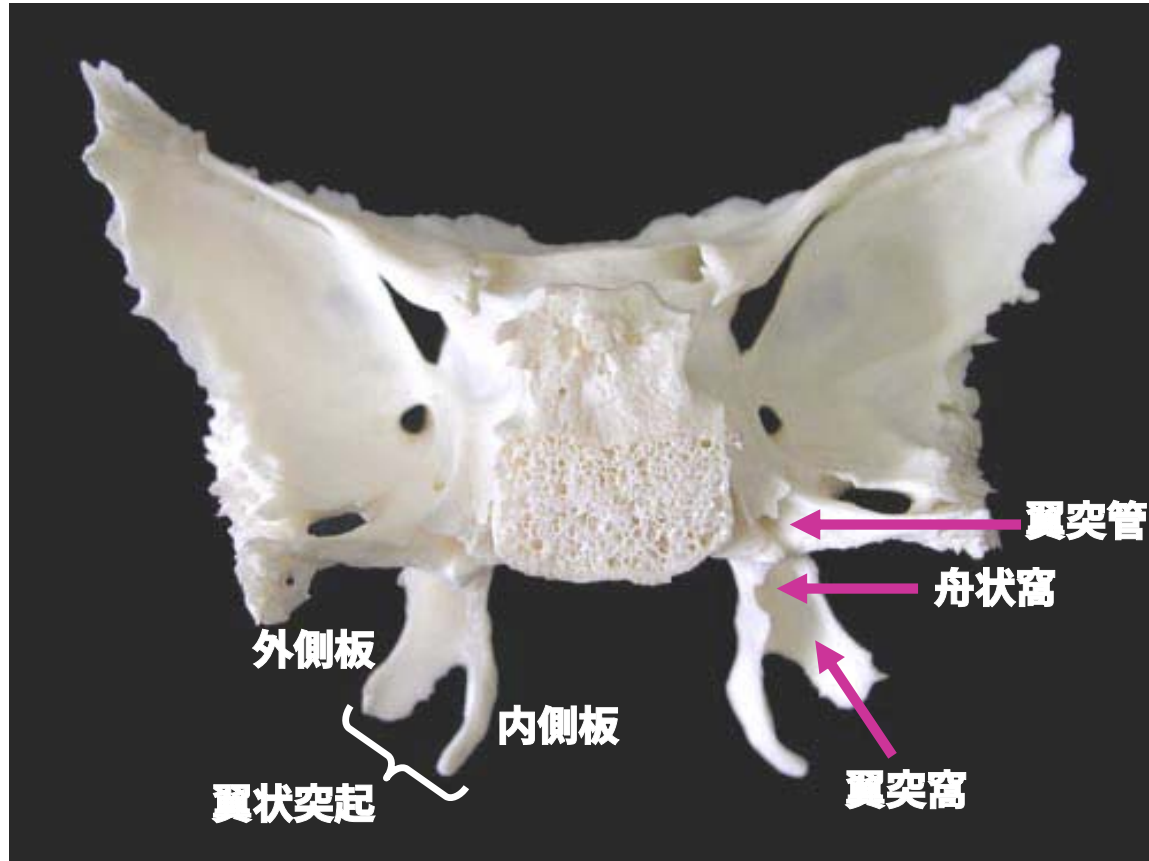
外頭蓋底 中部



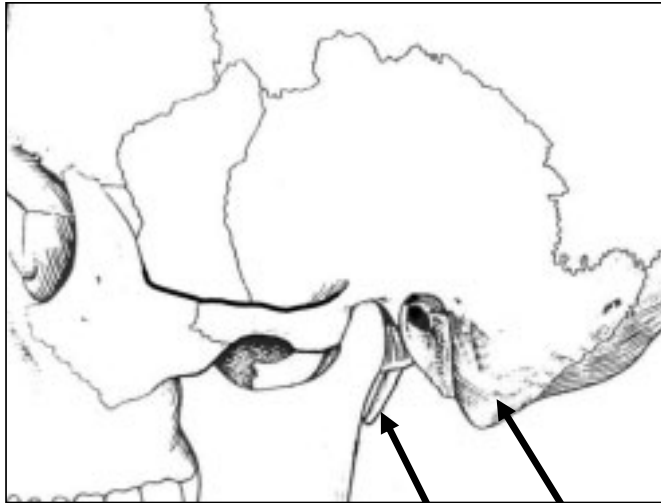
關節面

外頭蓋底 中部

蝶形骨
後方より

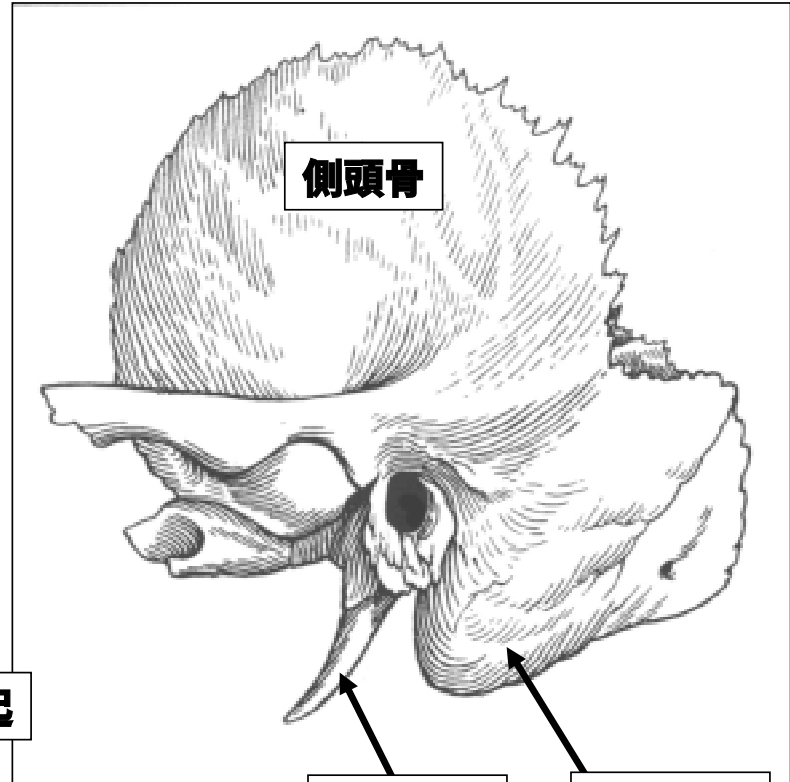


外頭蓋底 後部



茎状突起

乳様突起

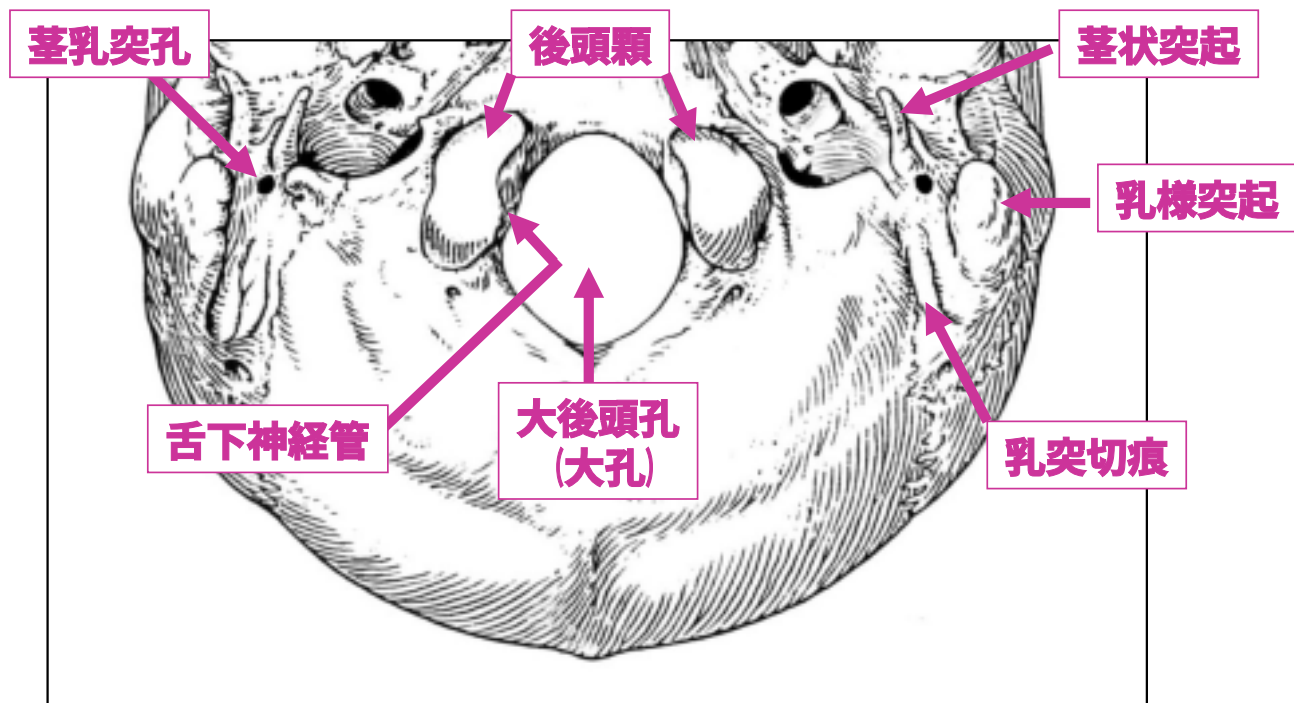


側頭骨

茎状突起

乳様突起

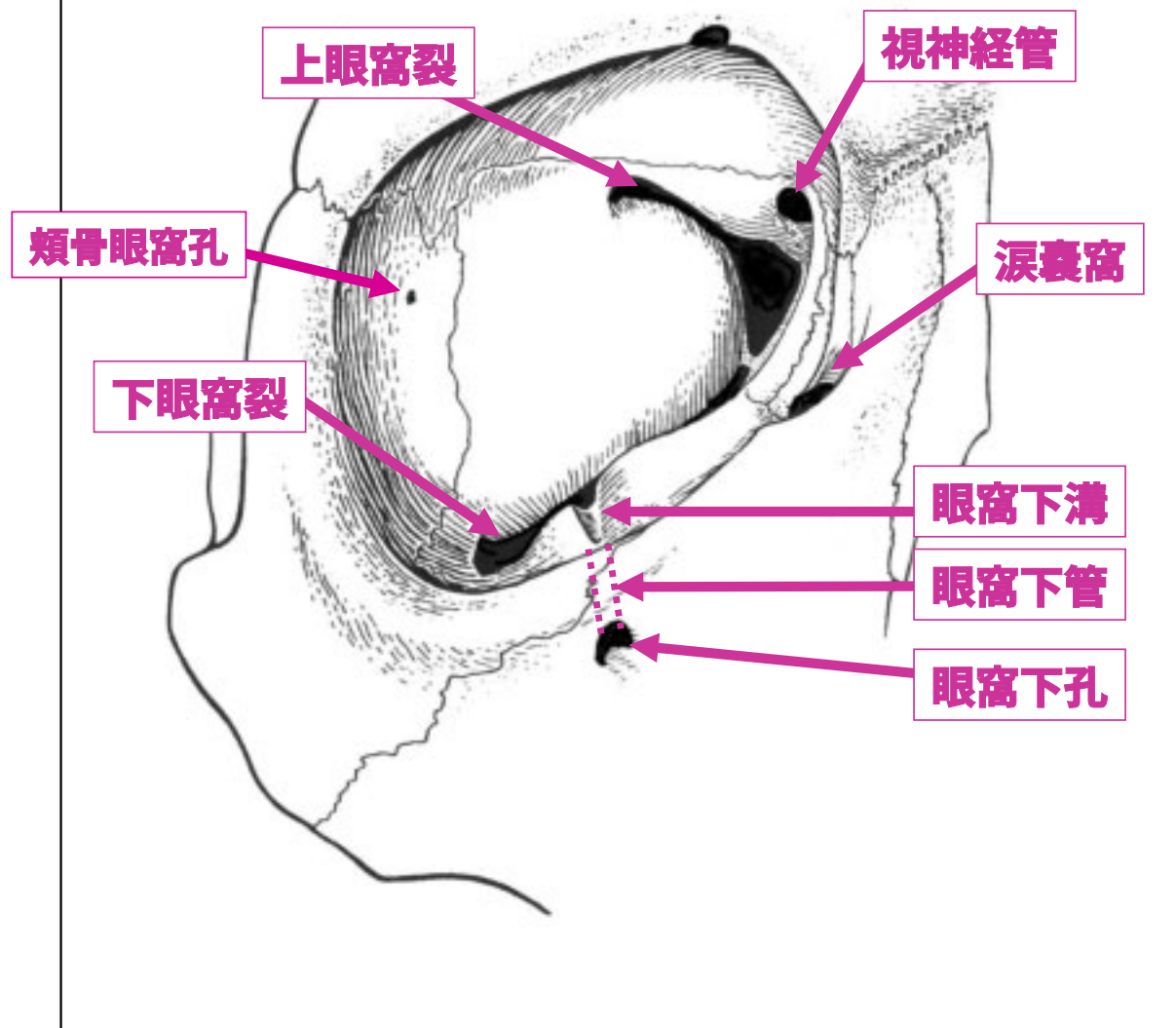
外頭蓋底 後部

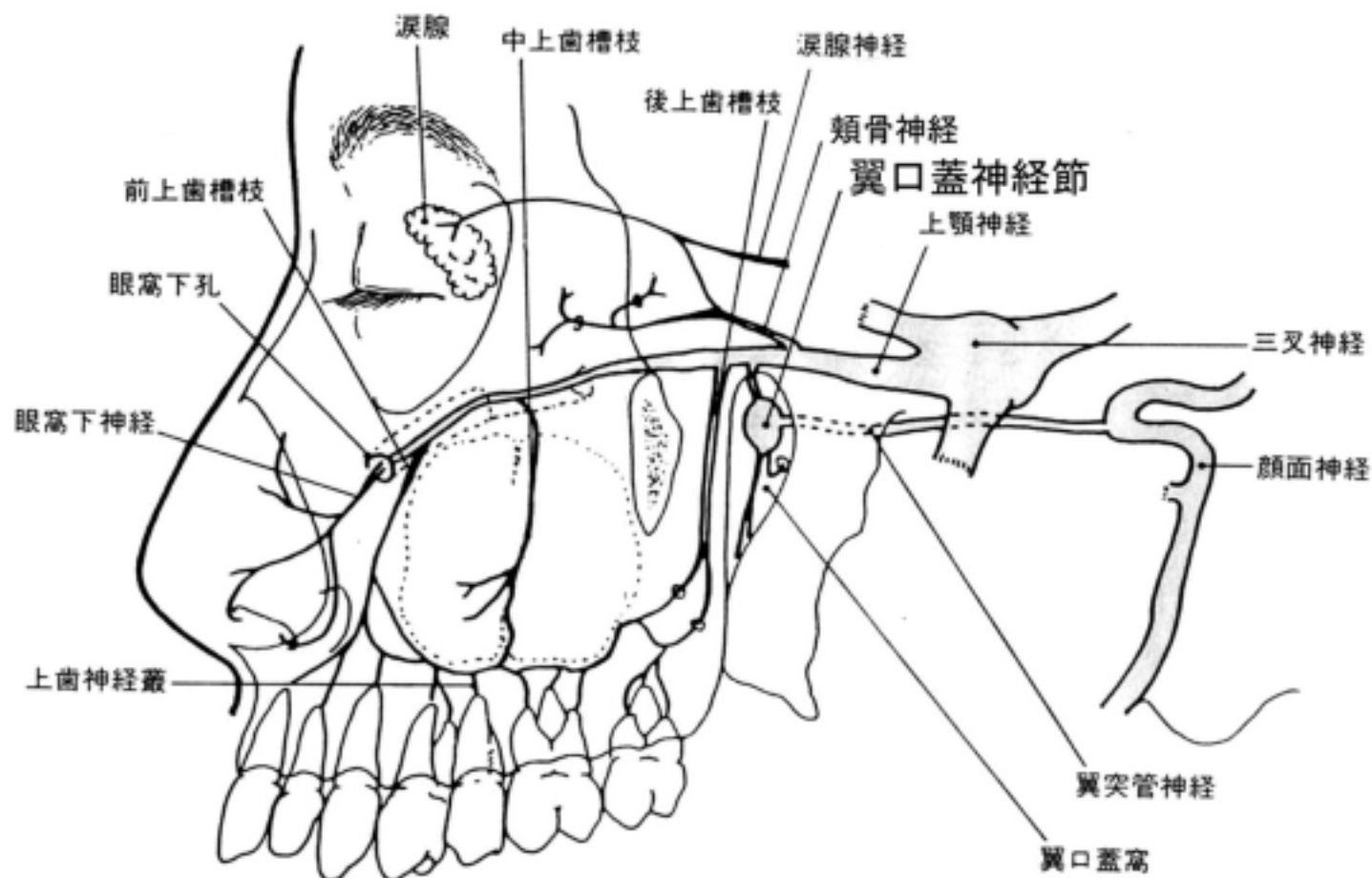


顔面頭蓋の構造

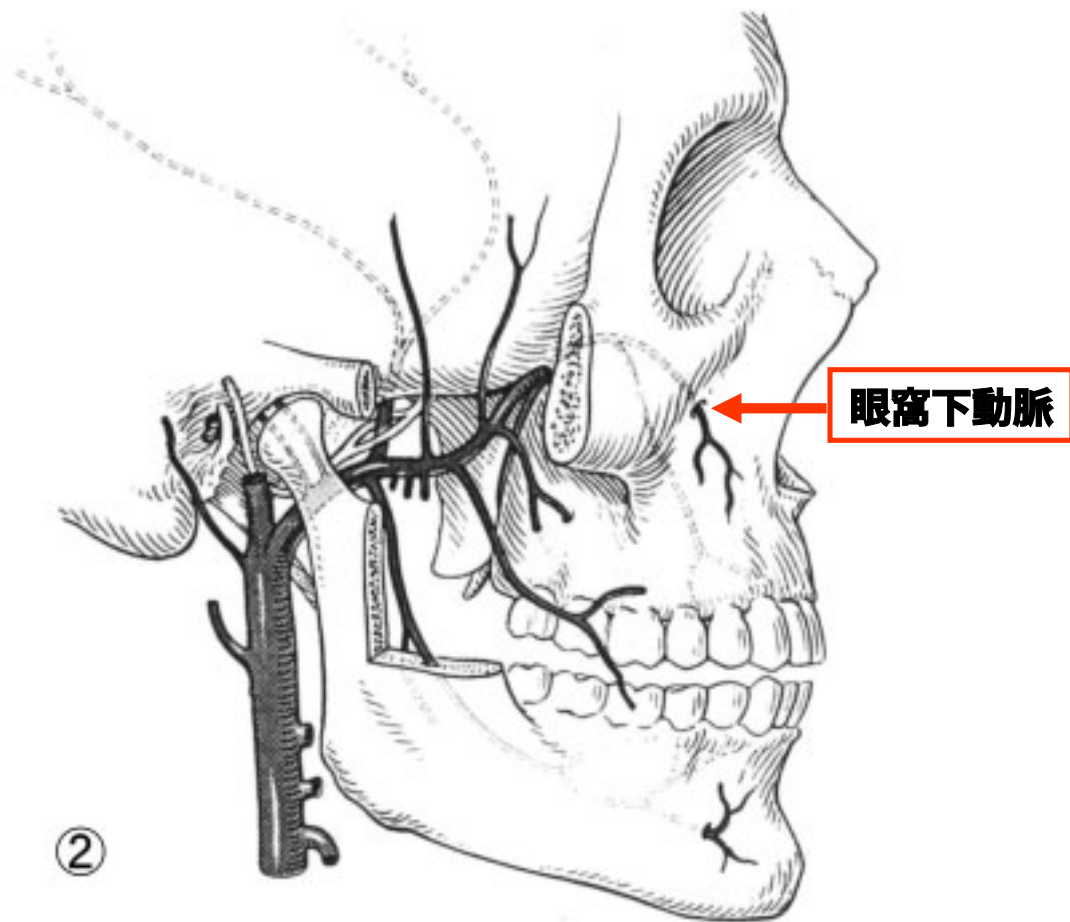
**眼窩、鼻腔、副鼻腔
側頭窩と側頭下窩、翼口蓋窩**

眼 窩

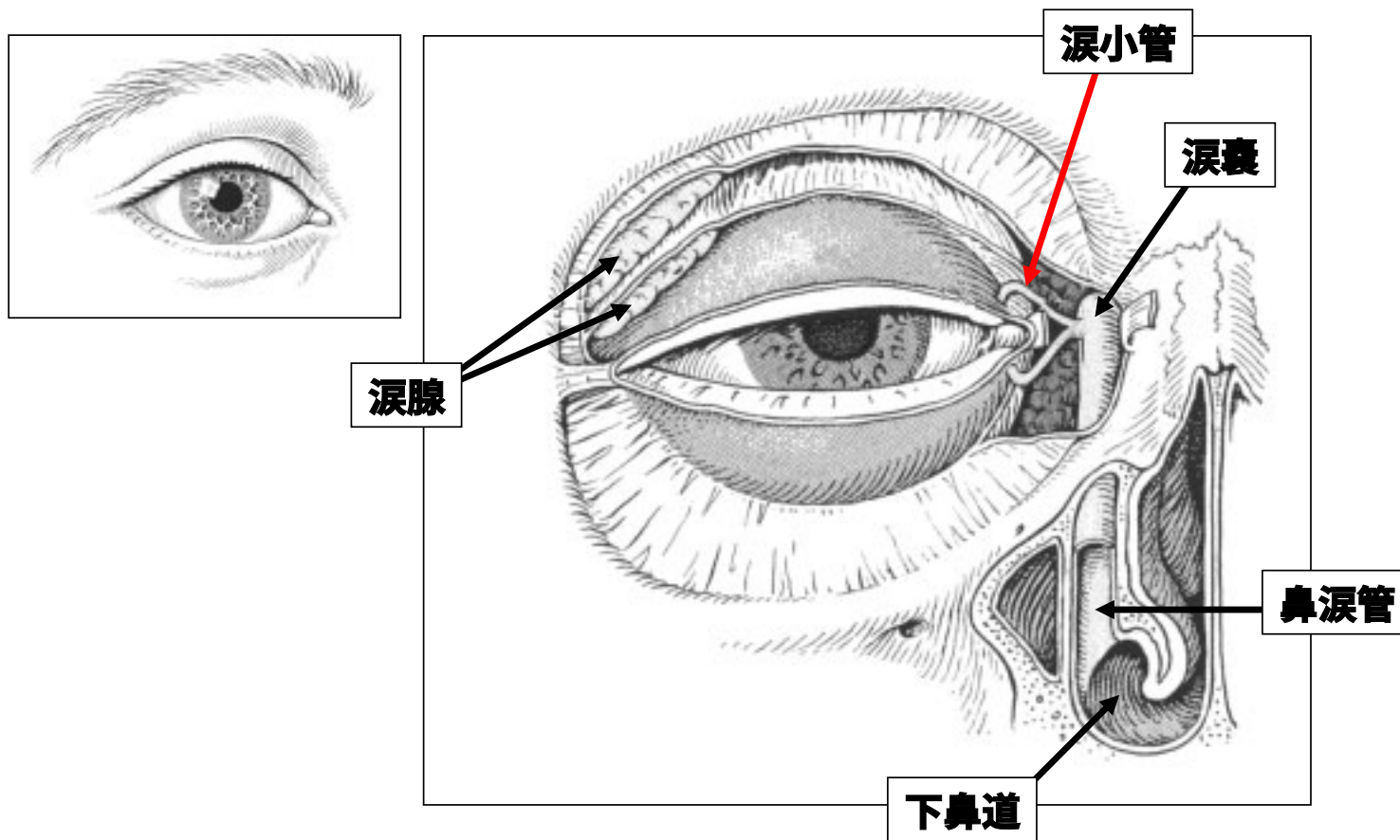




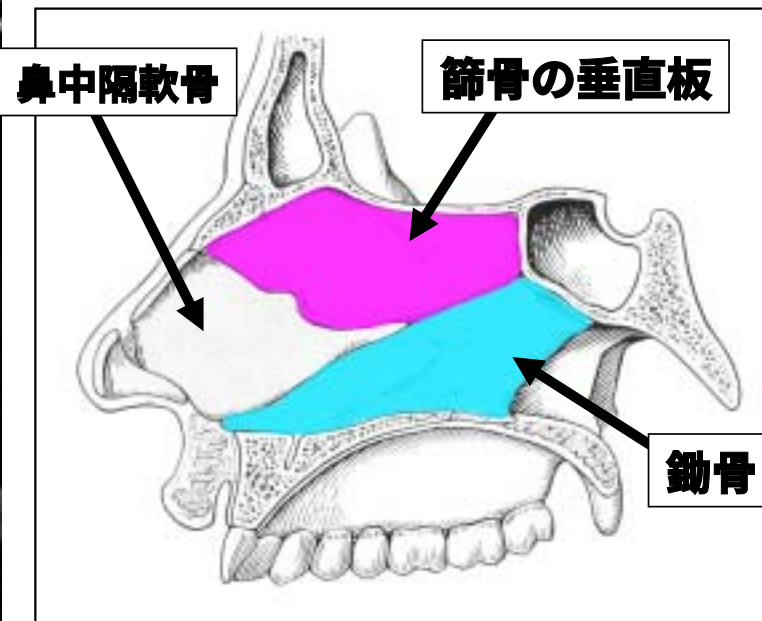
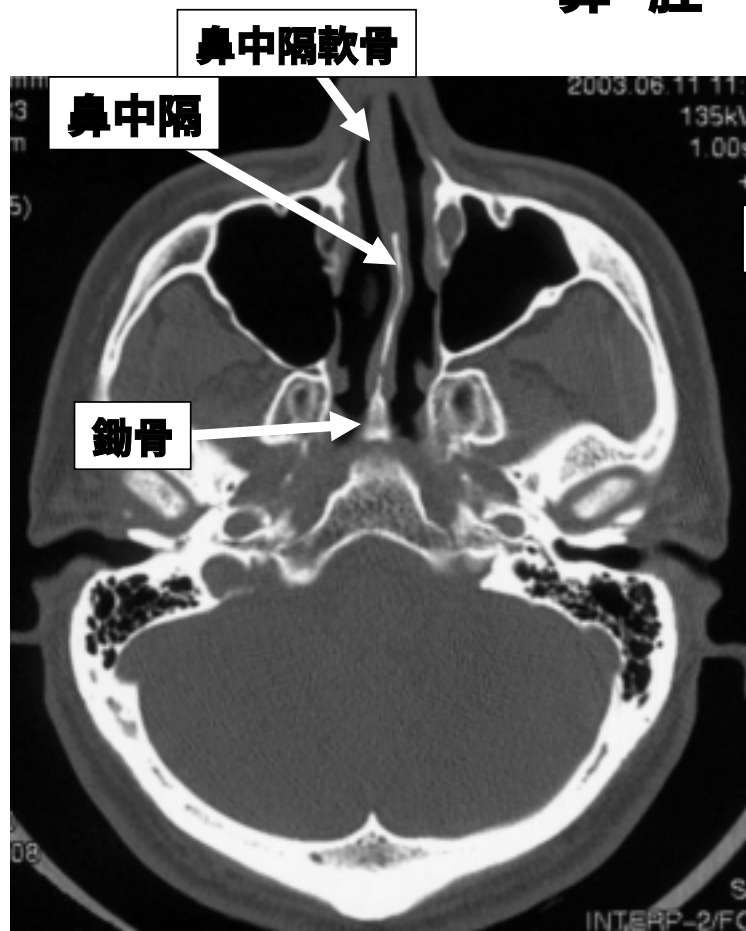
3 上顎神経の経路と分布



鼻泪管

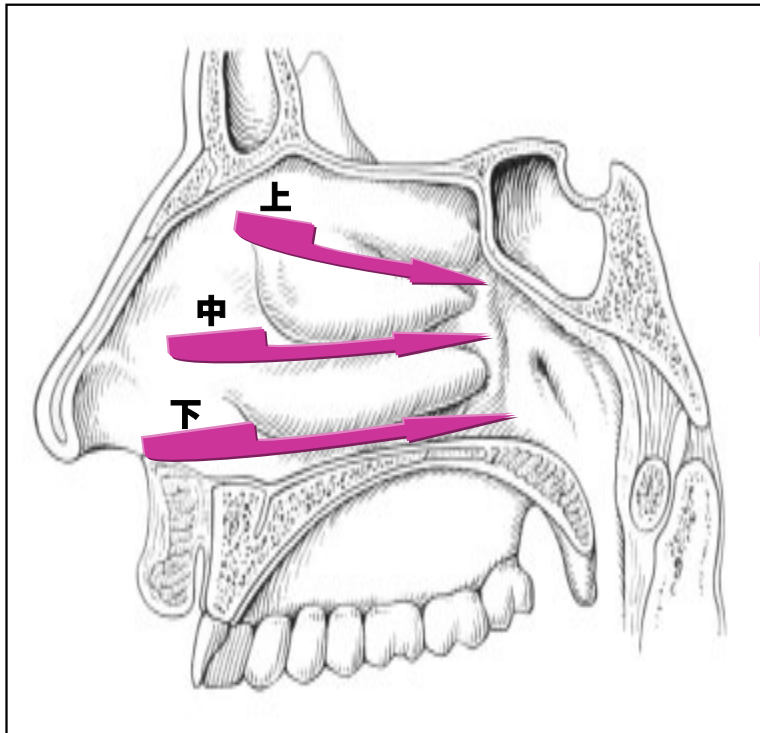


鼻 腔 (鼻中隔)

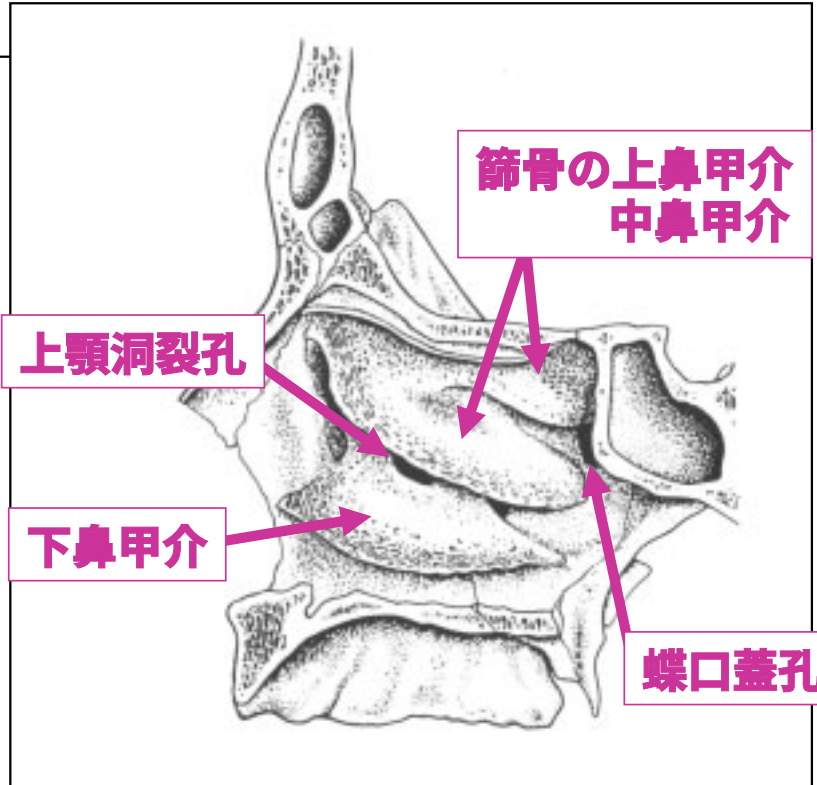


鼻腔の側壁

上・中・下鼻道

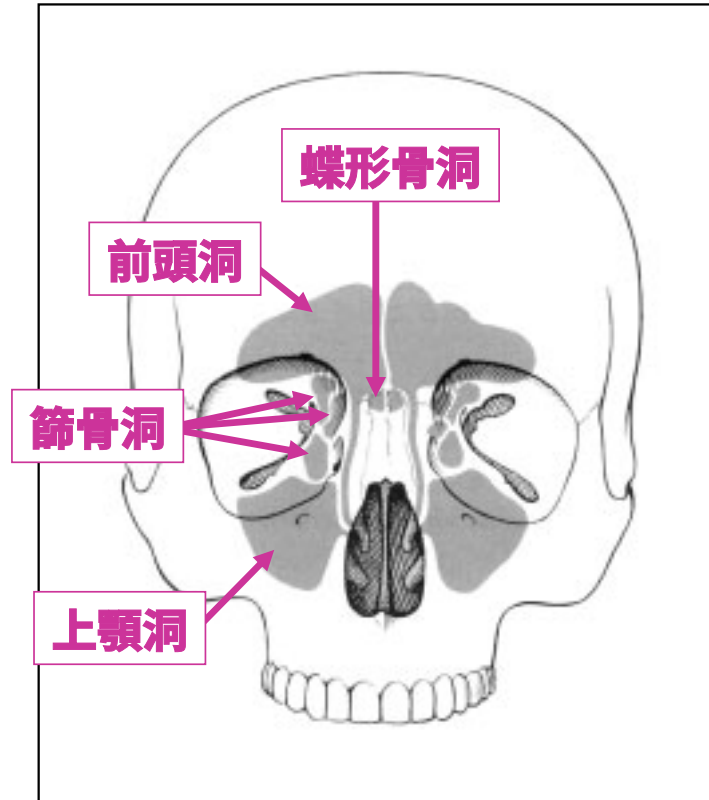


生体

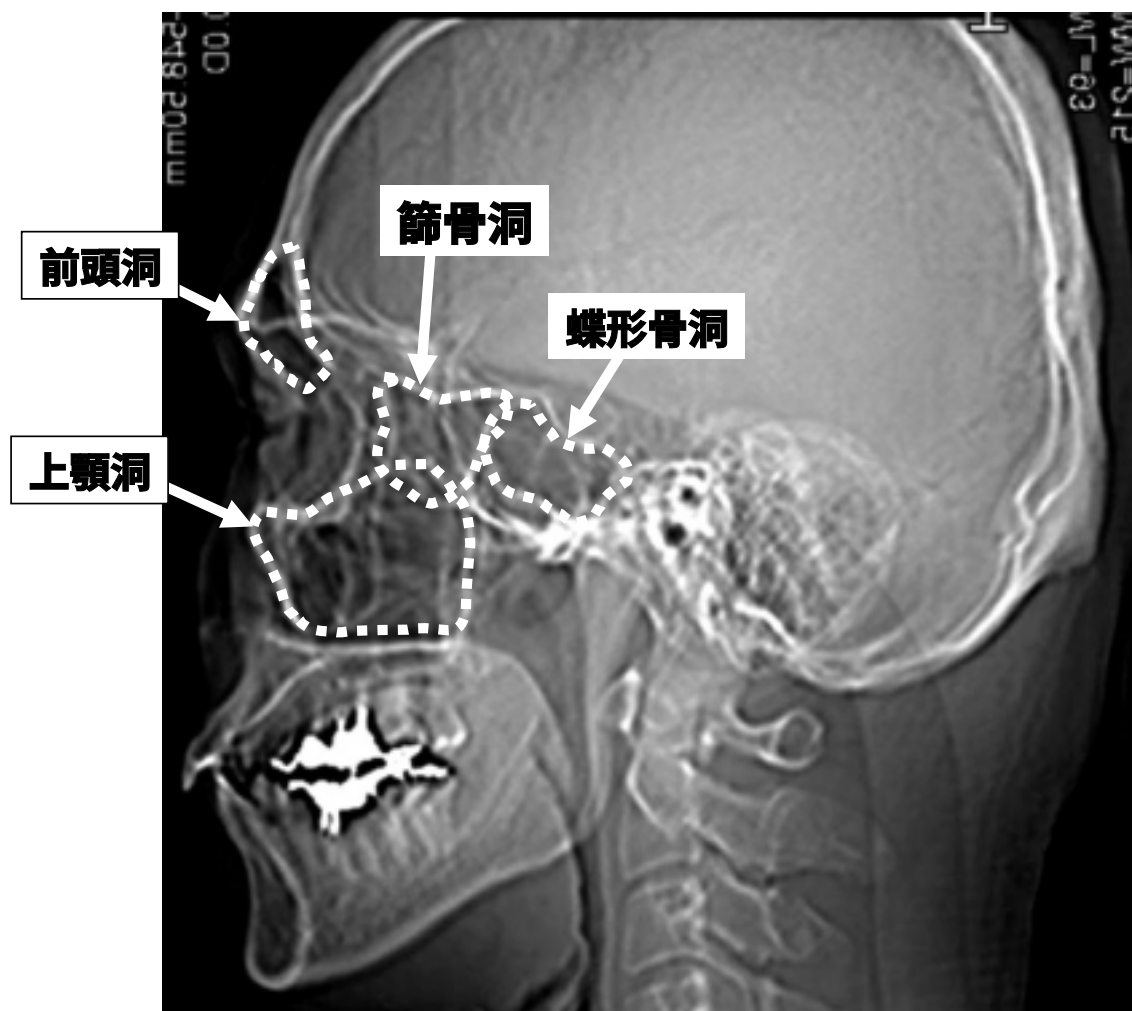


骨格

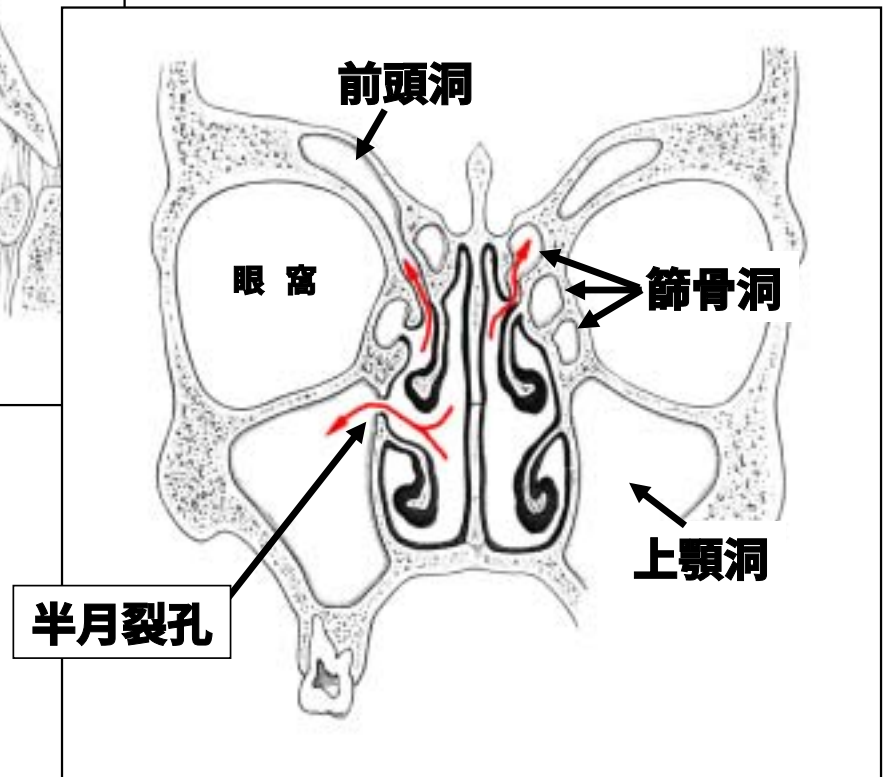
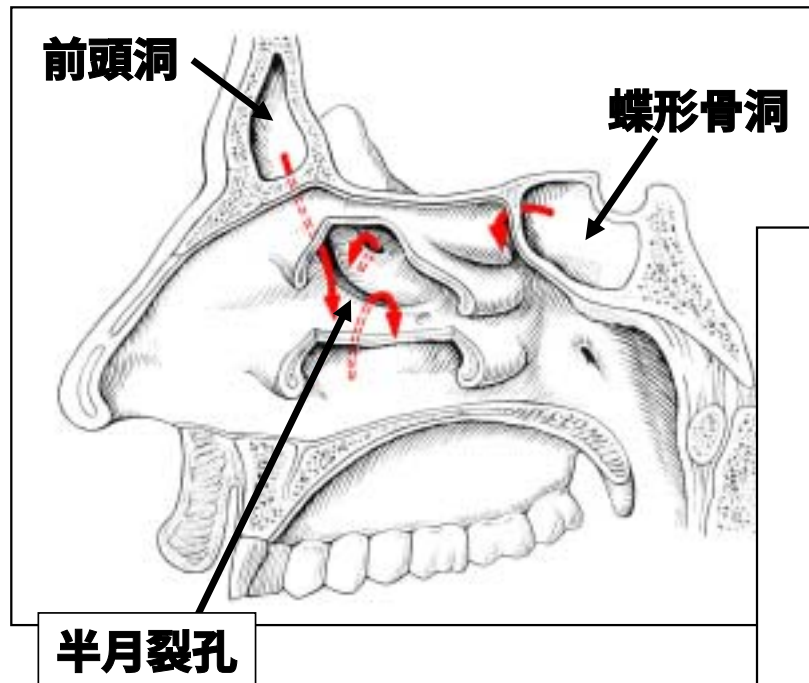
副鼻腔



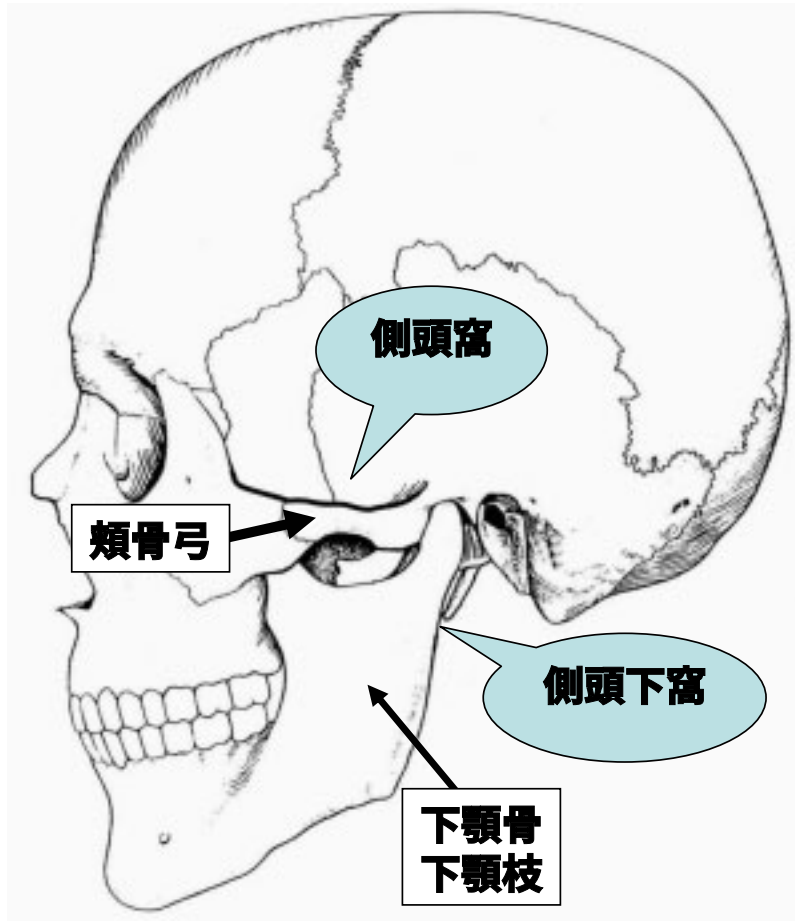
副鼻腔の投影



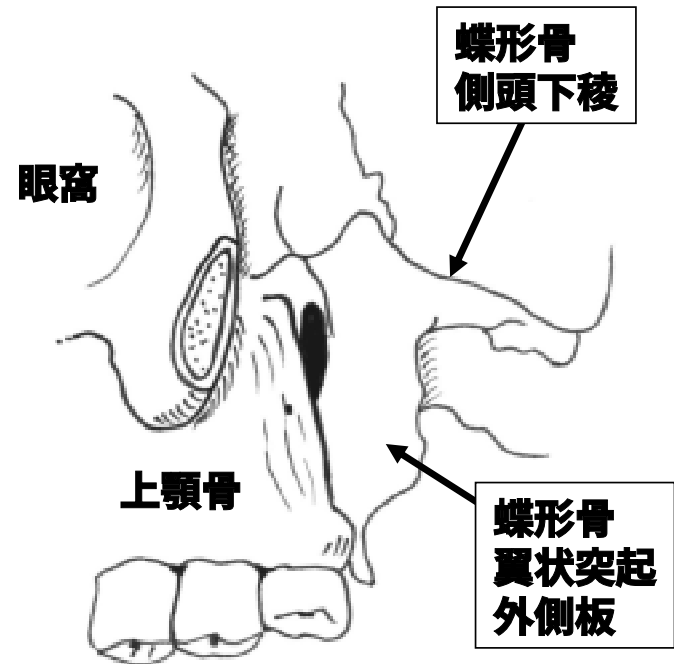
副鼻腔－鼻腔との連絡



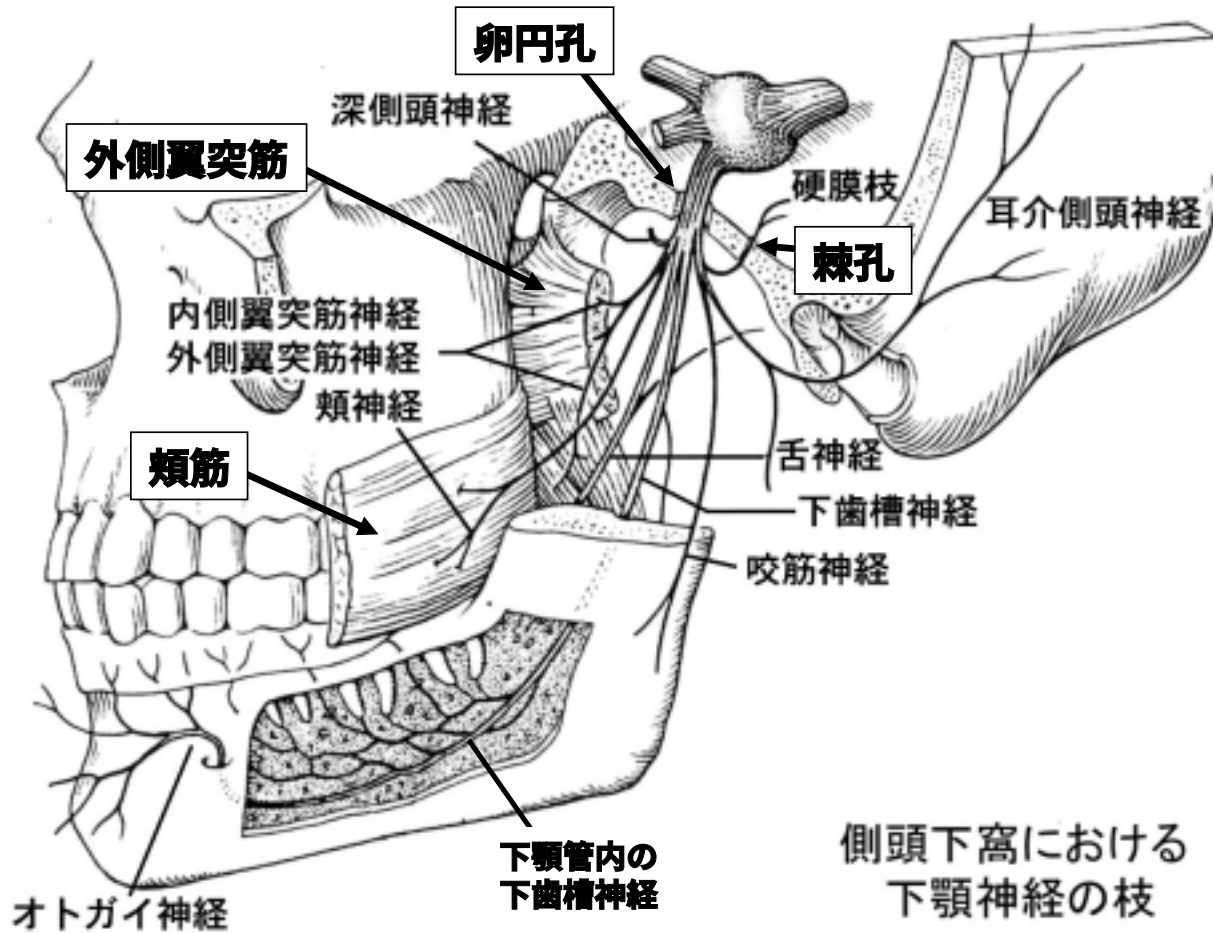
側頭窩と側頭下窩



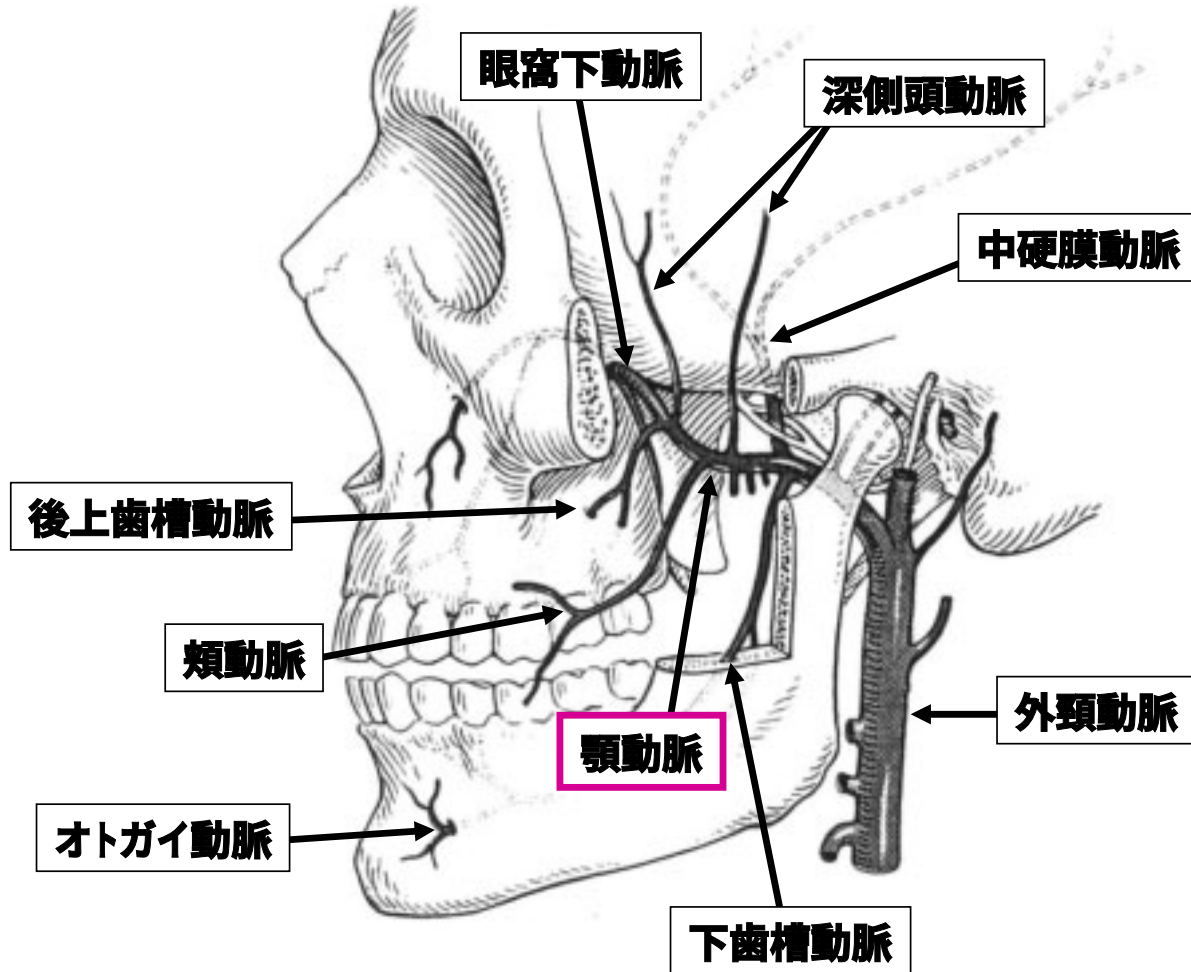
頬骨弓を切断後の図



側頭下窩での下顎神経の分枝

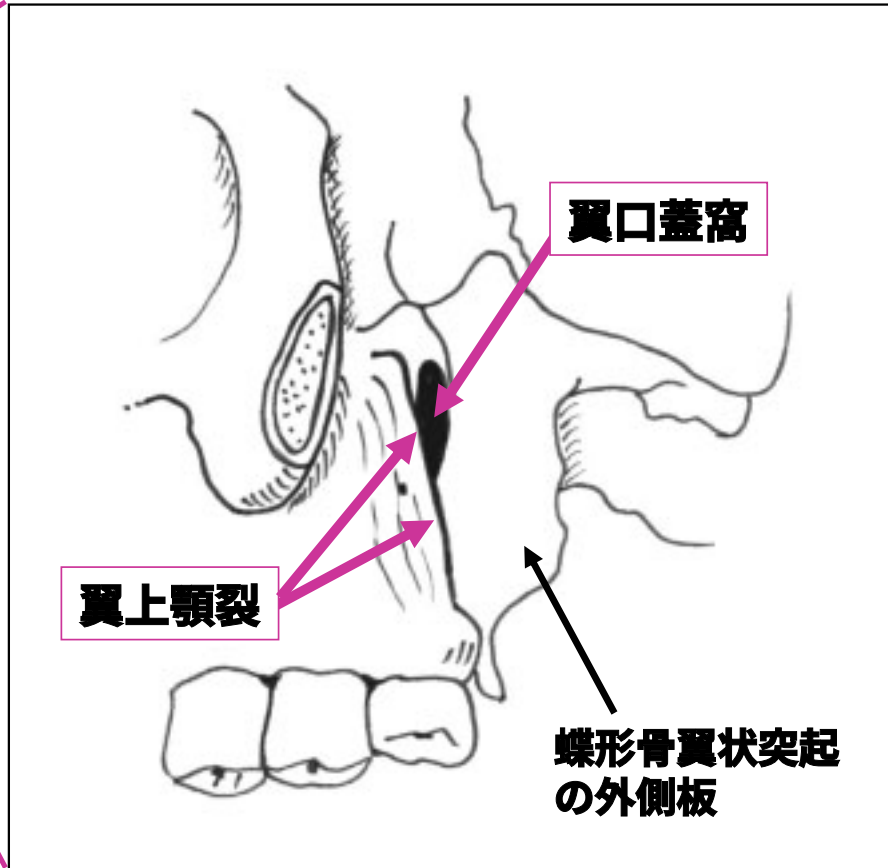
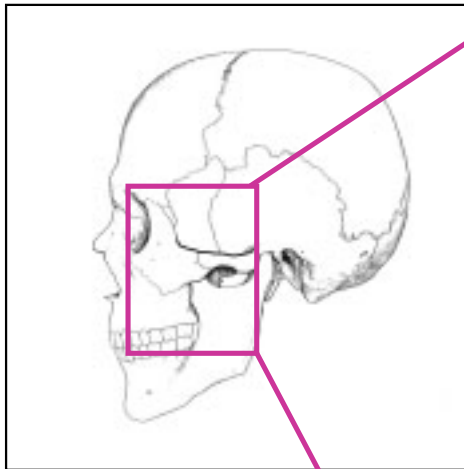


側頭下窩における顎動脈の分枝

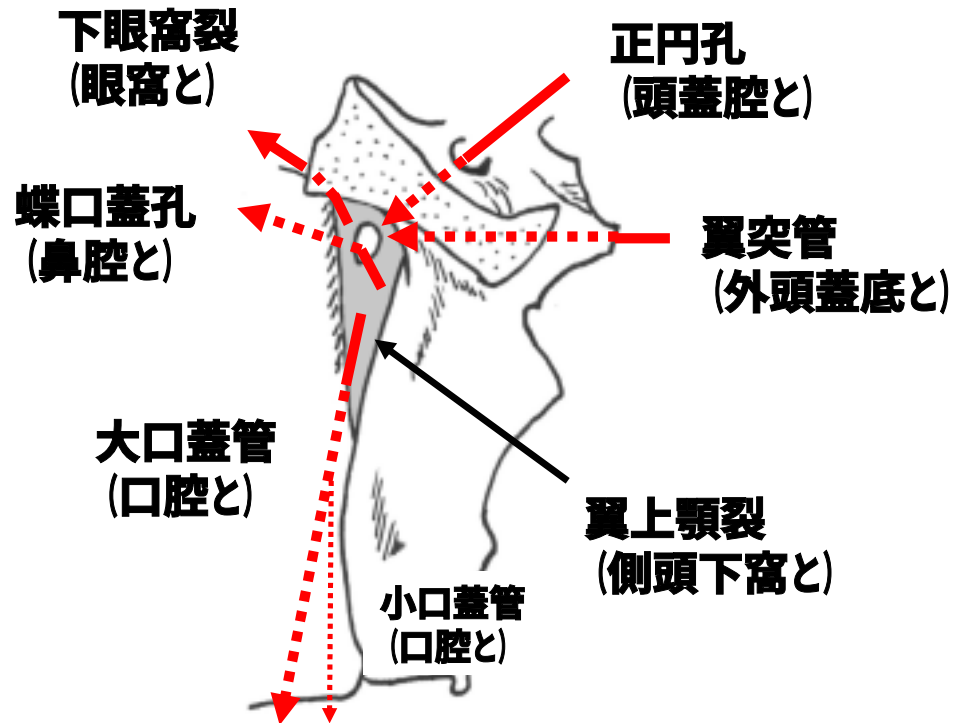
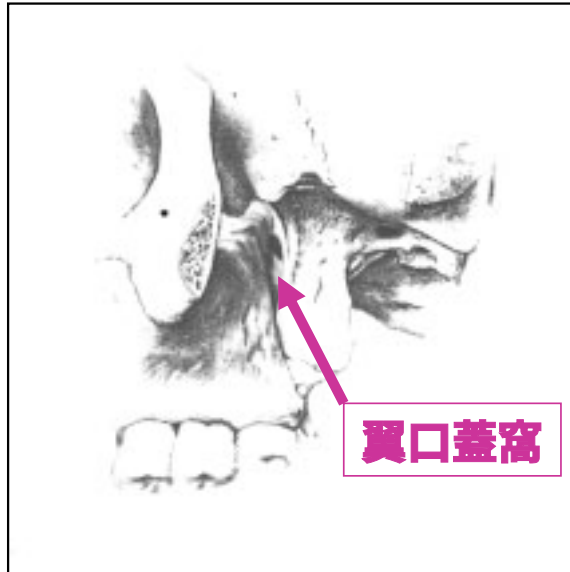


翼口蓋窩

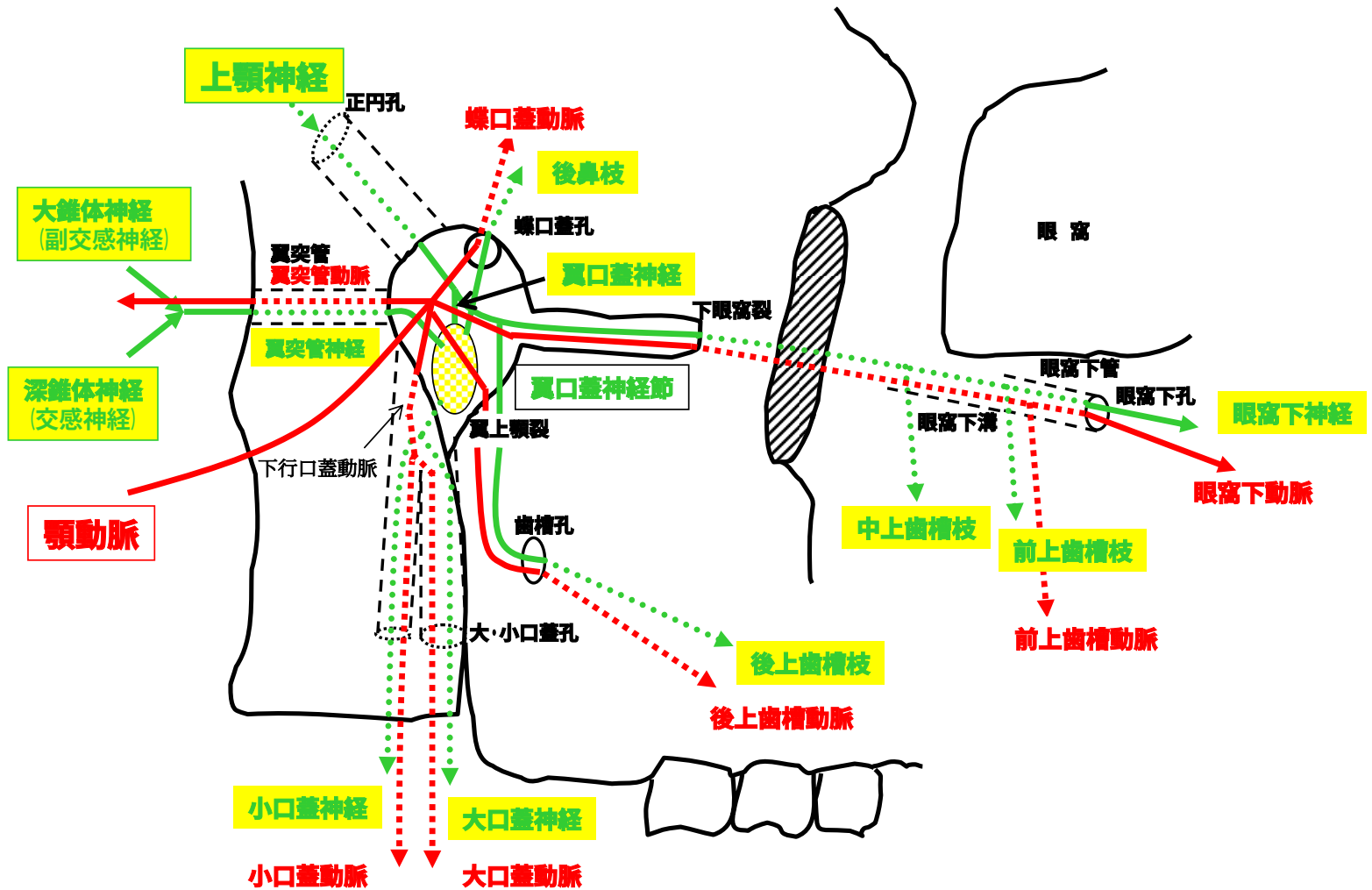
頬骨弓を切除した左側頭蓋



翼口蓋窩との交通路



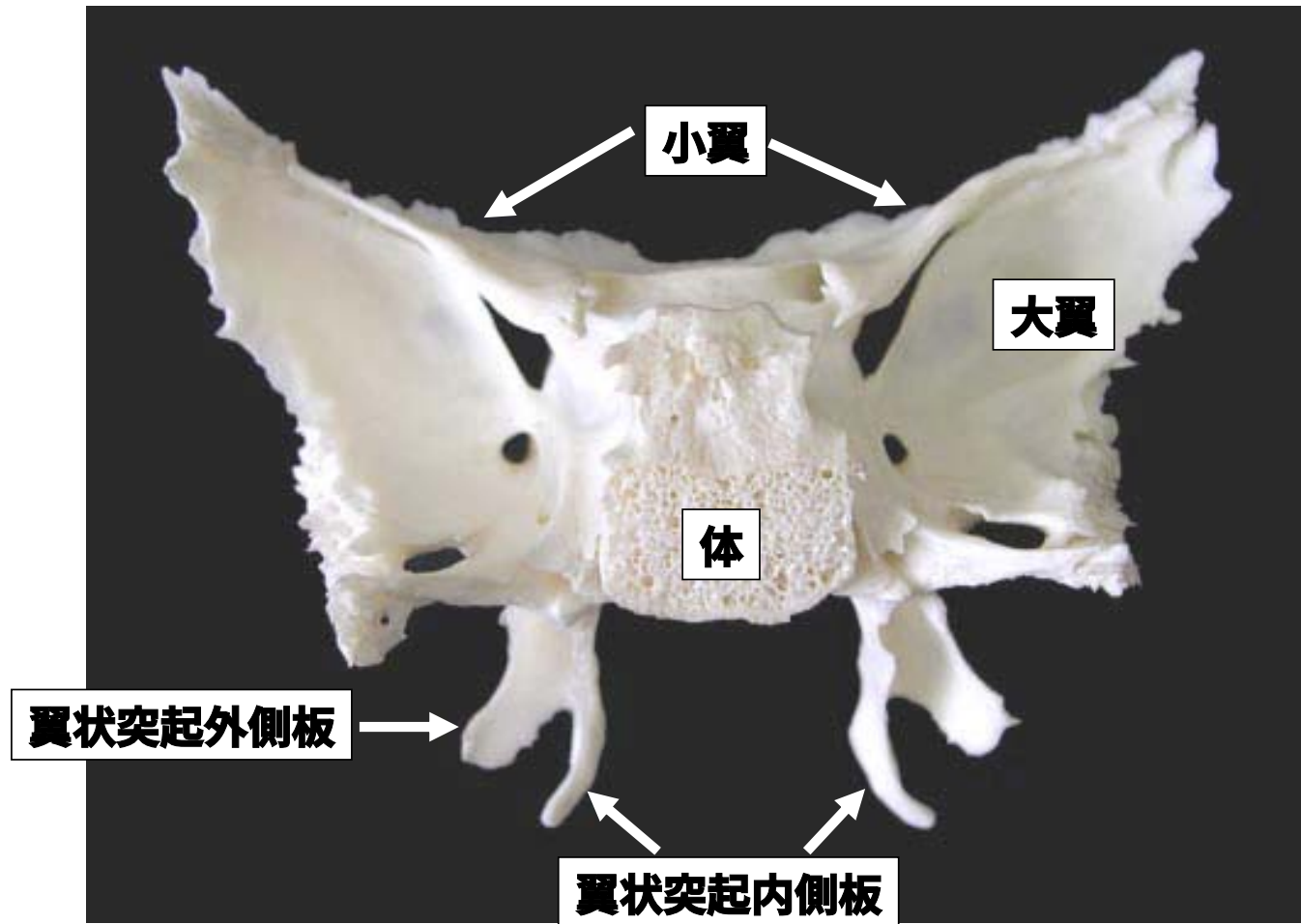
翼口蓋窩における上顎神経と顎動脈の分枝

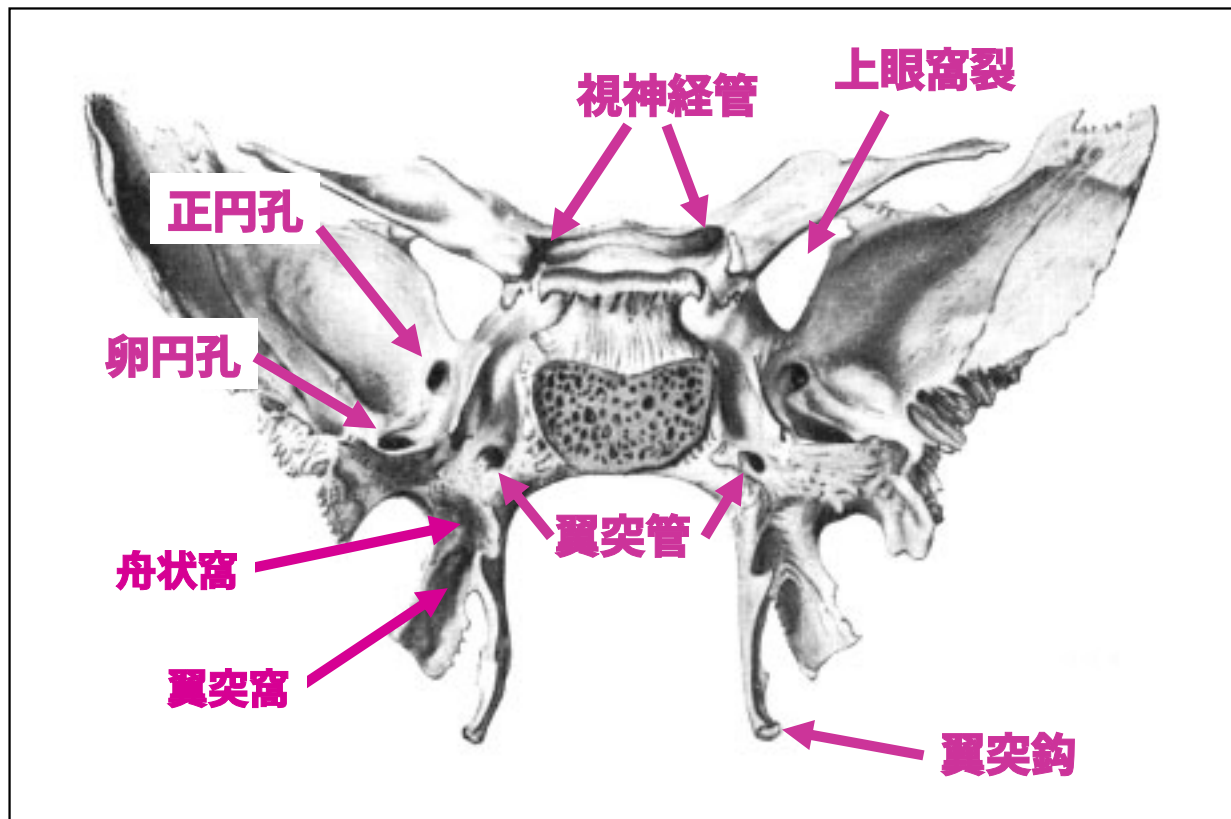


個々の頭蓋骨の構造

蝶形骨

蝶形骨



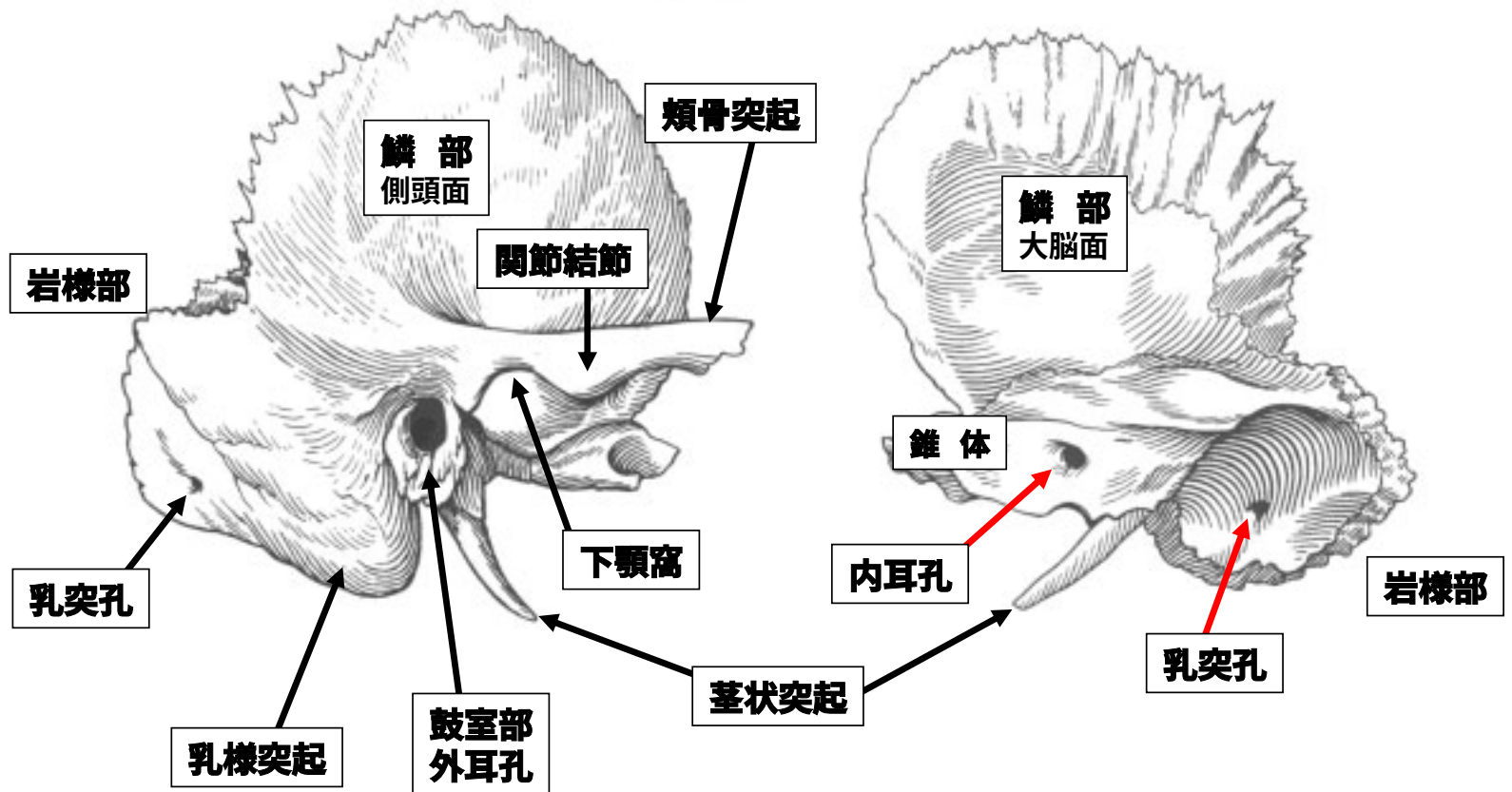


側頭骨

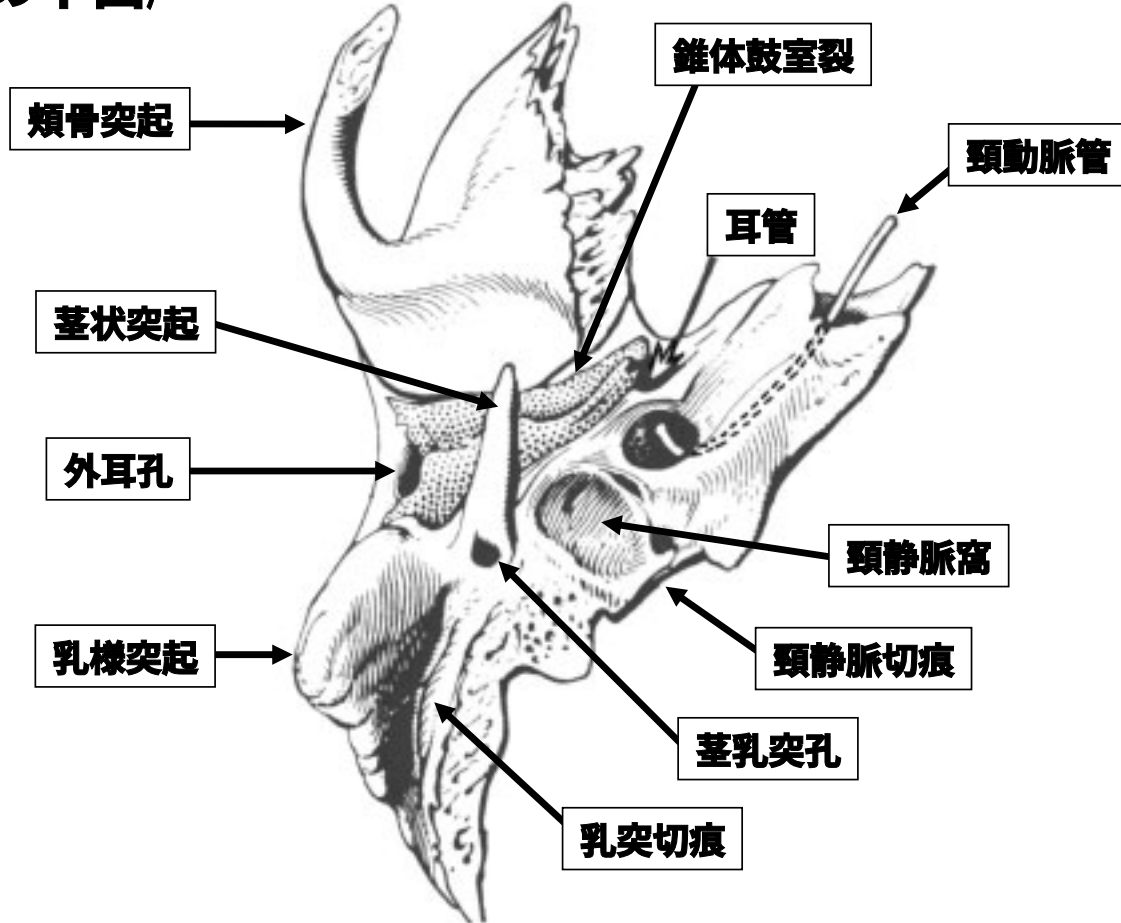
側頭骨

外側面

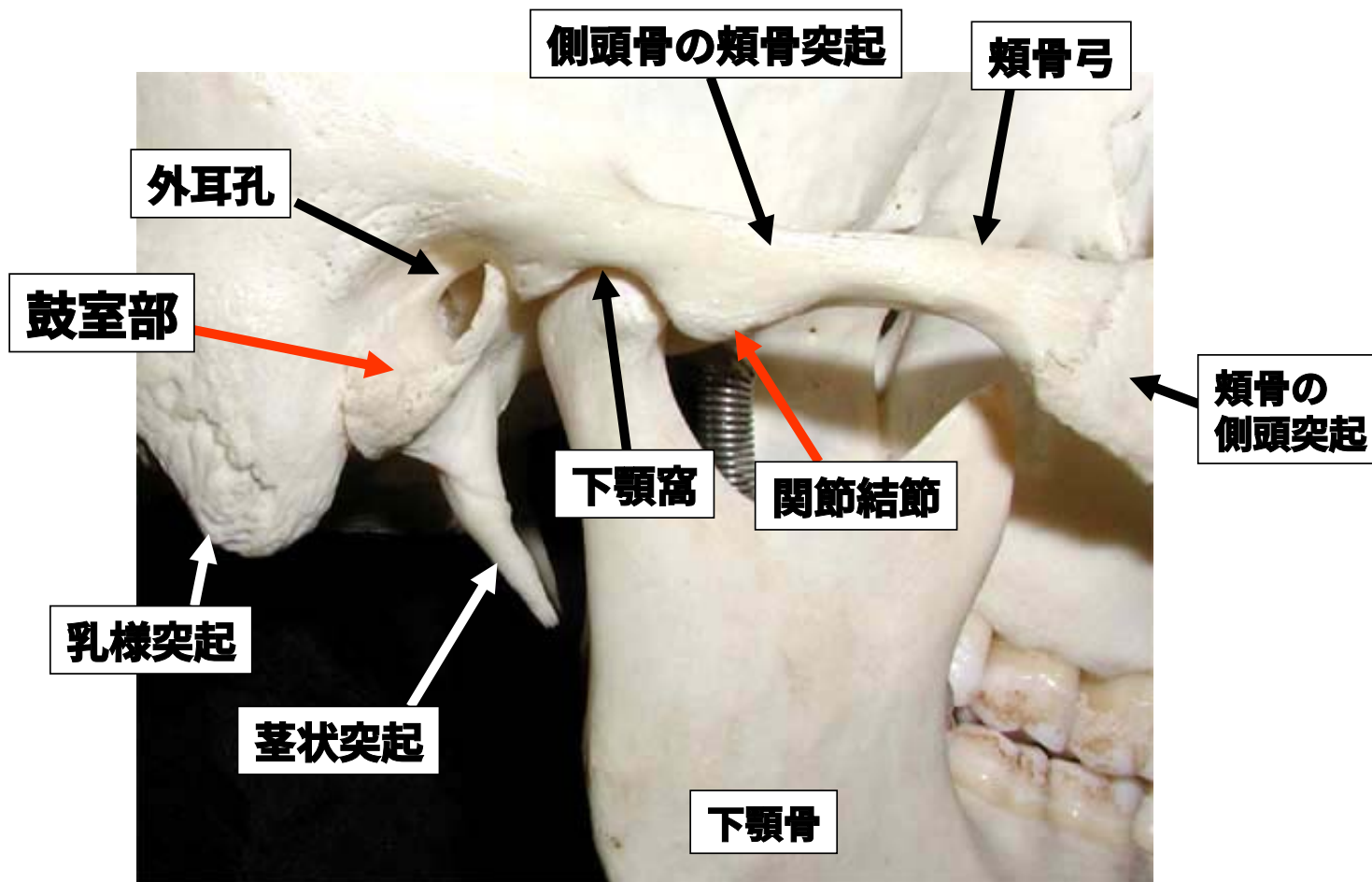
内側面

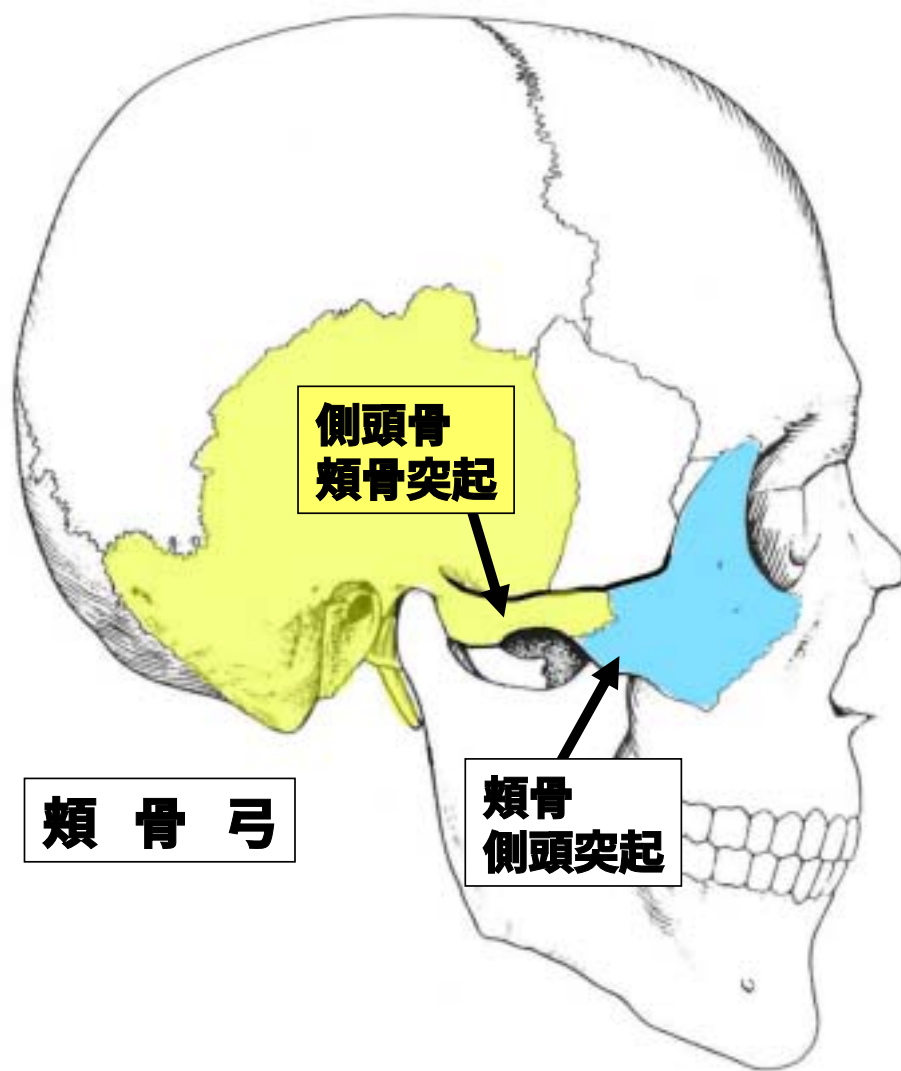


側頭骨 (右側の下面)

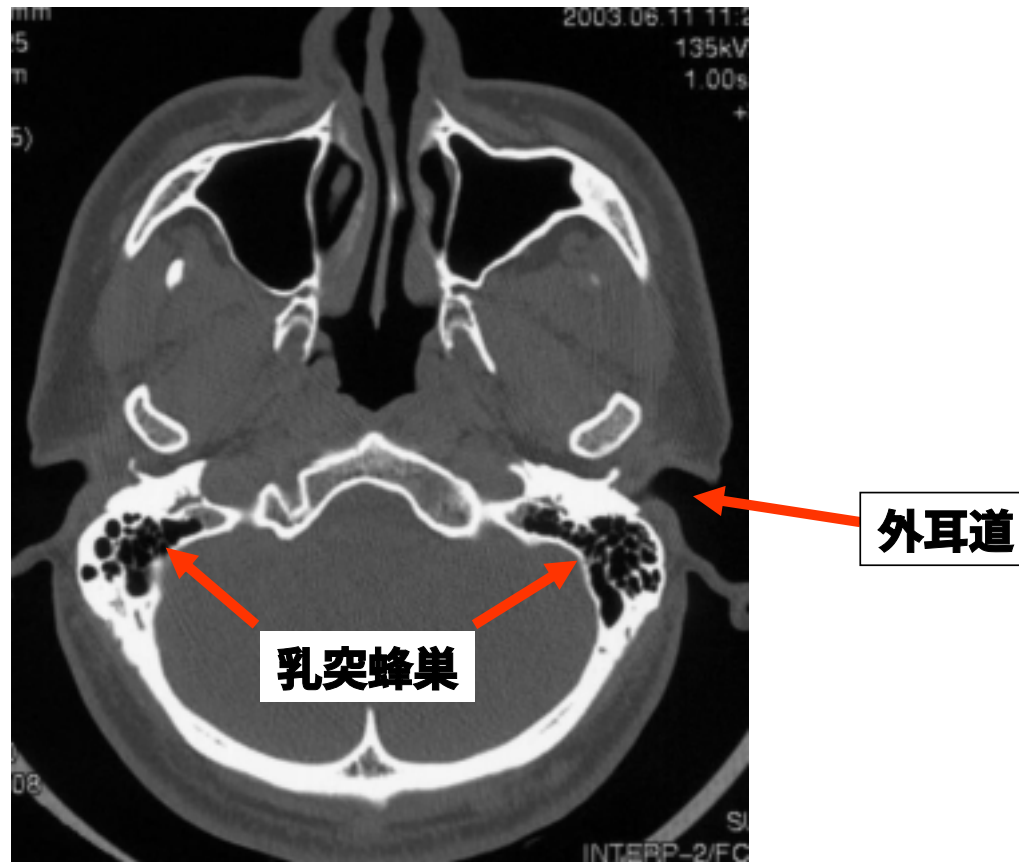


側頭骨の外面 (下顎骨との関係)

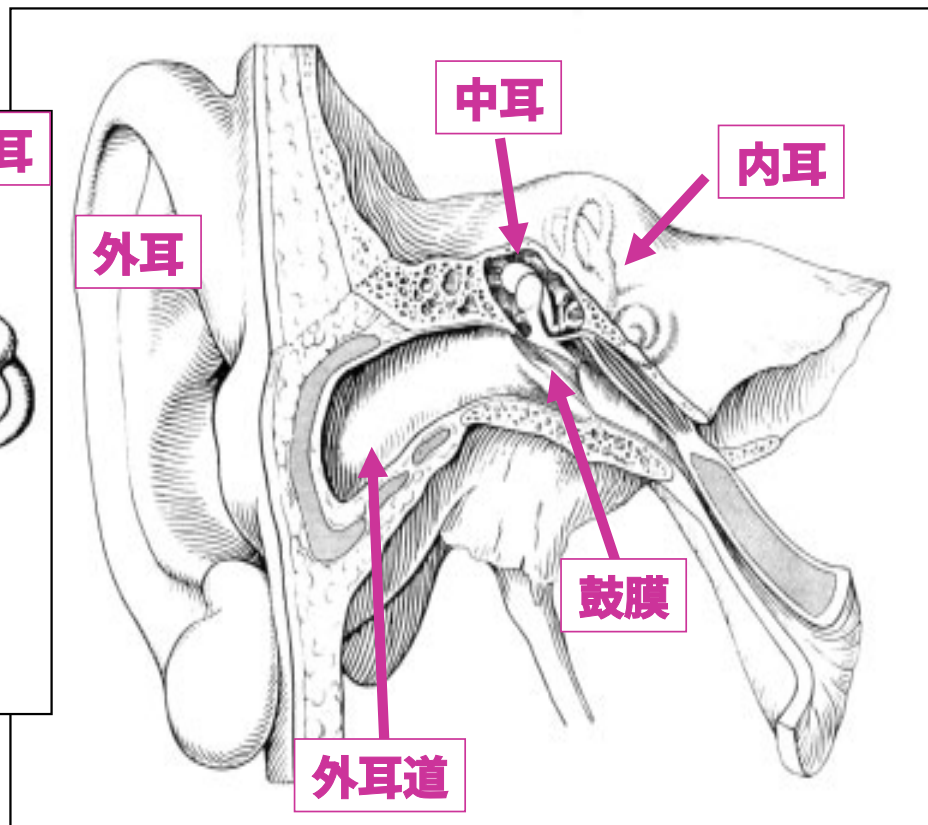
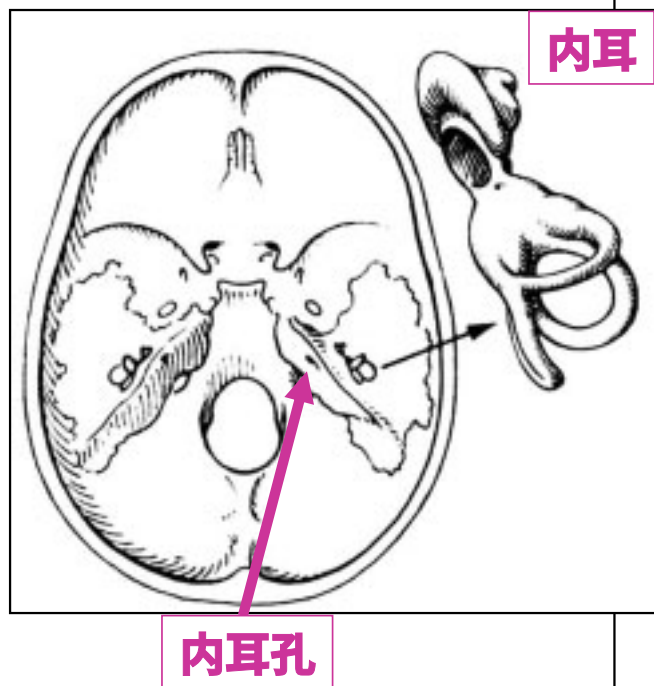


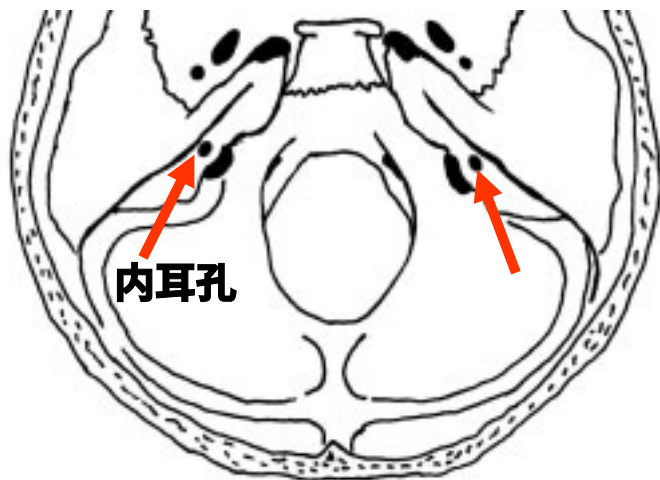


乳突蜂巣 (乳様突起の内部構造)



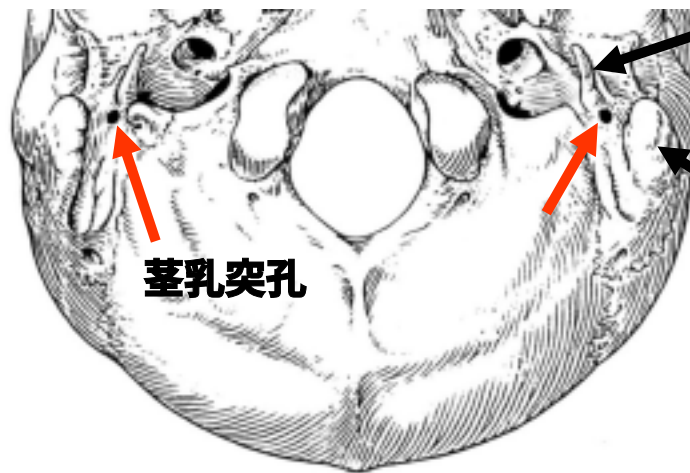
外耳、中耳、内耳





内耳孔
(内頭蓋底から)

茎乳突孔
(外頭蓋底から)

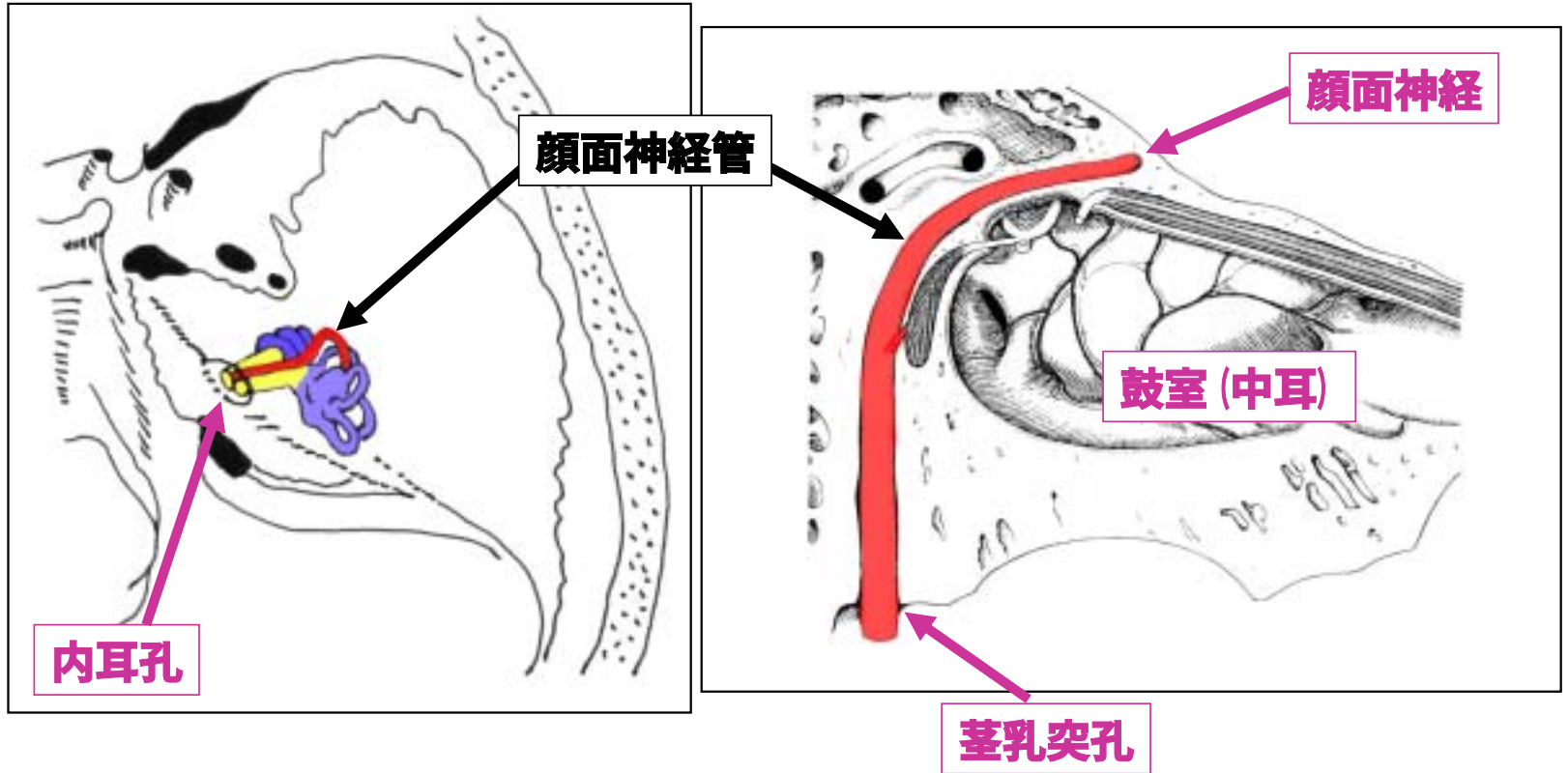


茎乳突孔

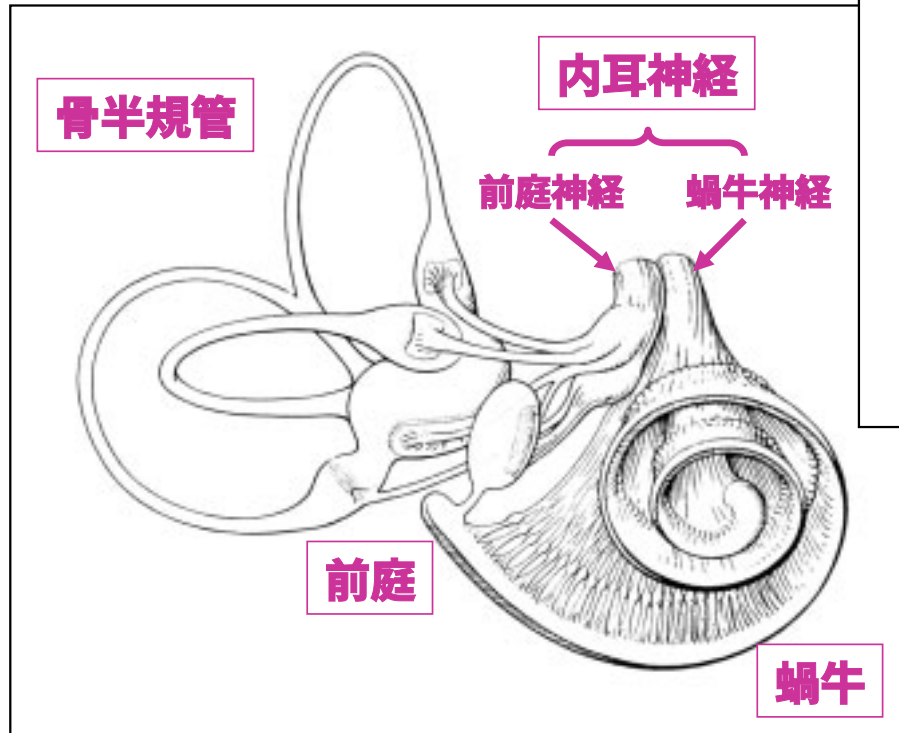
茎状突起

乳様突起

顔面神経と内耳との位置関係 (顔面神経管)

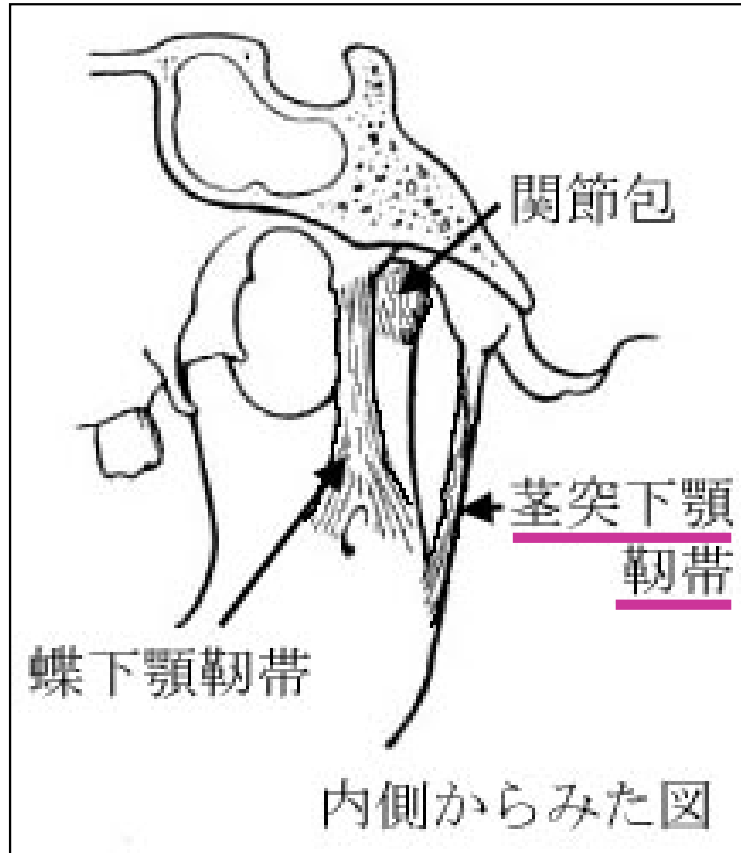


内耳 と 内耳神経



茎状突起に付着する靱帯

茎突下顎靱帯

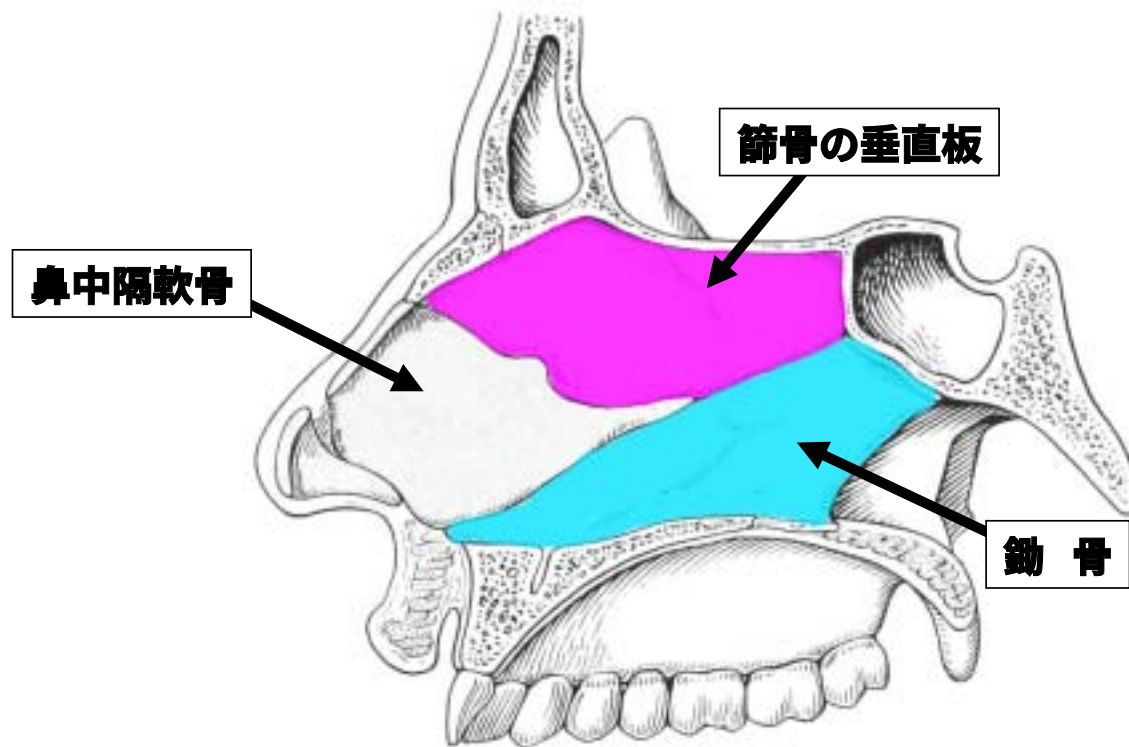


茎突舌骨靱帯

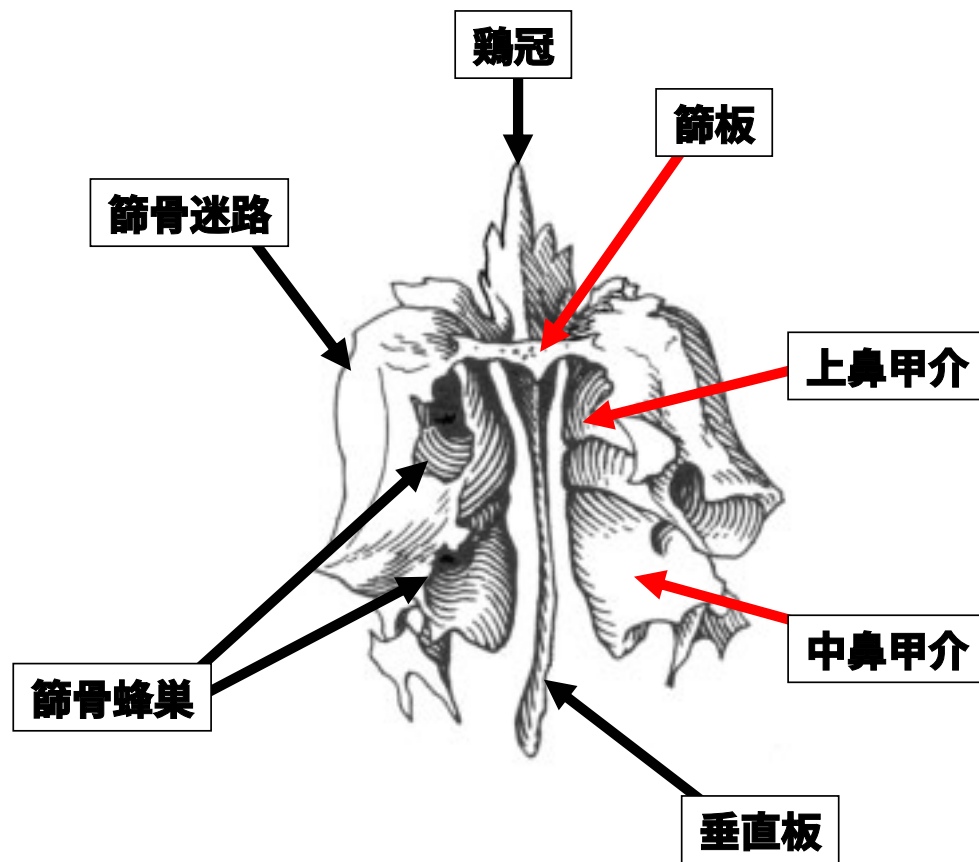


篩骨、中鼻甲介、鋤骨

鼻中隔



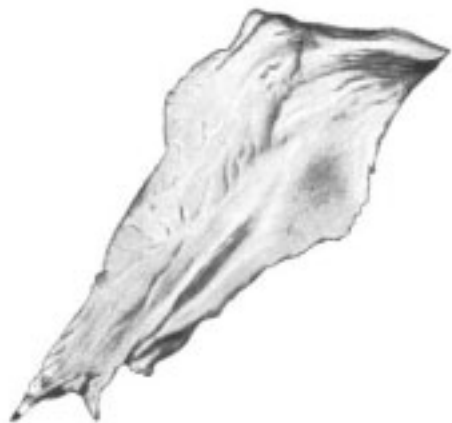
篩 骨



鋤 骨



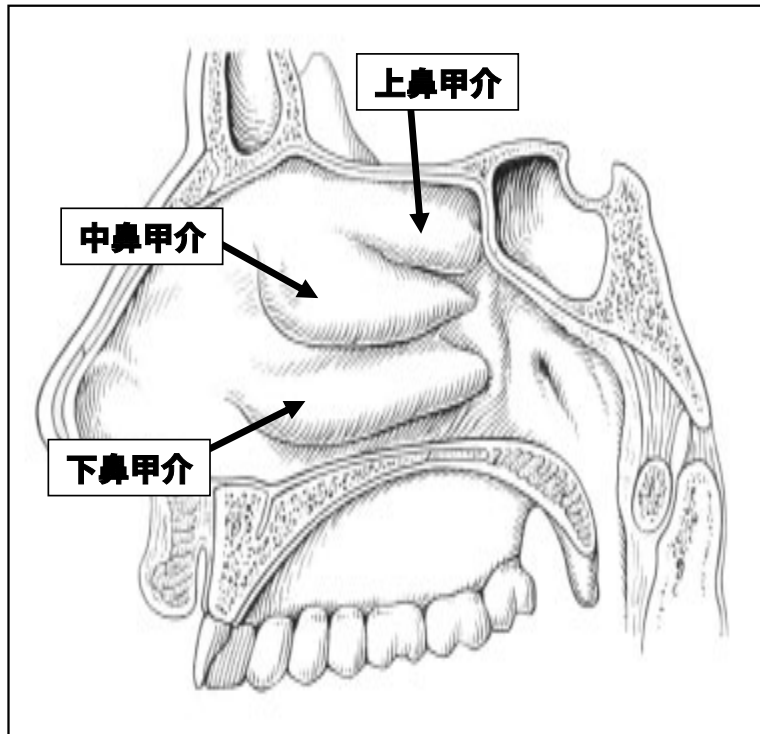
後面



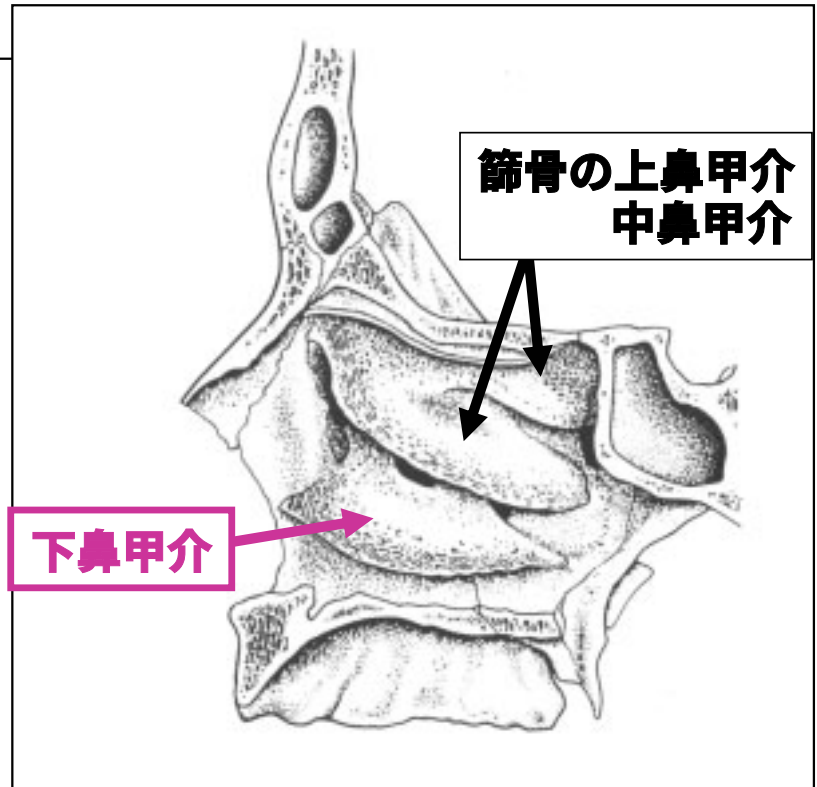
左側面



下鼻甲介 (鼻腔の側壁)



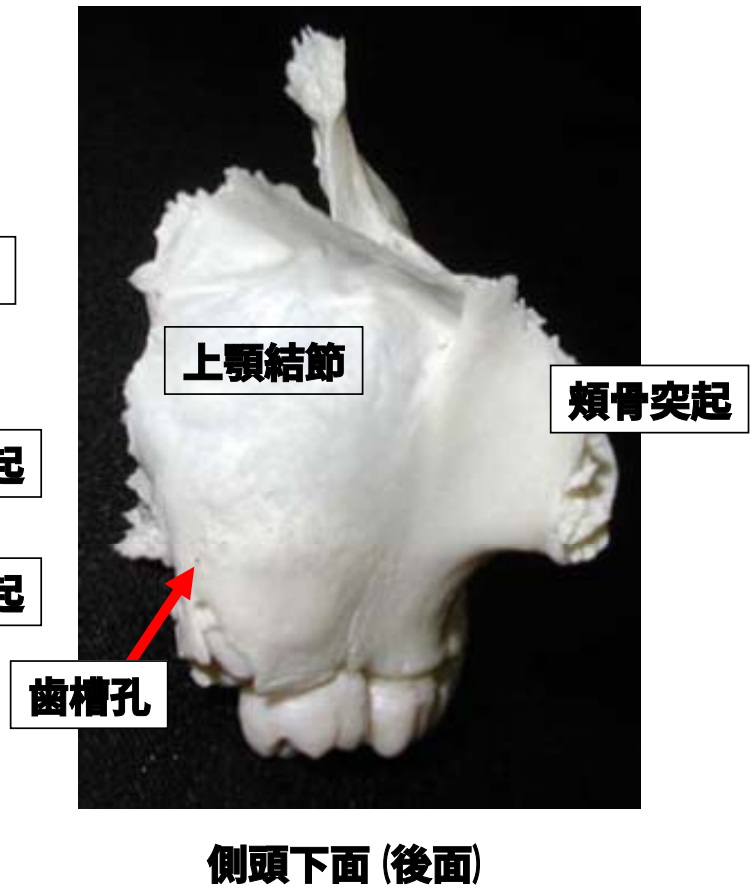
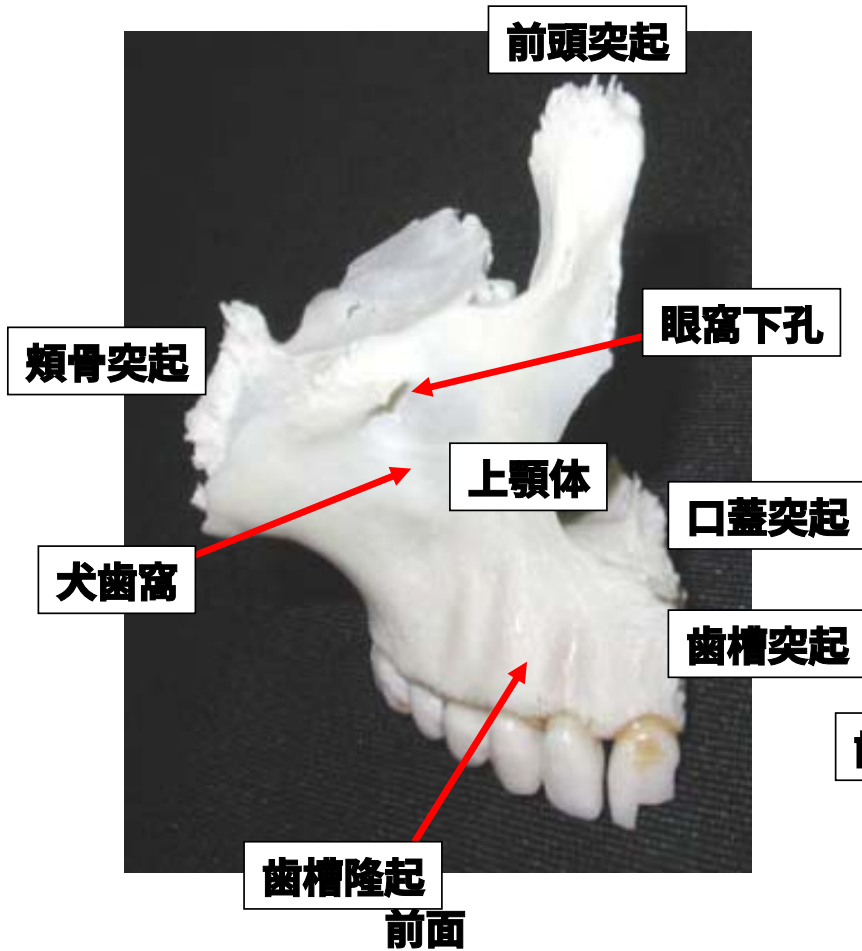
生体



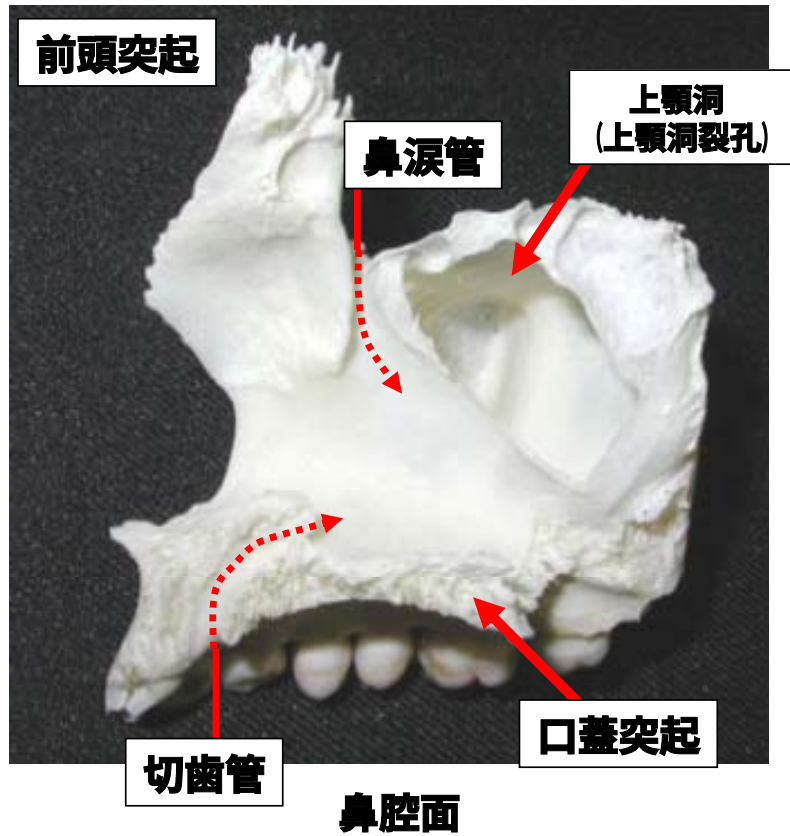
骨格

上顎骨

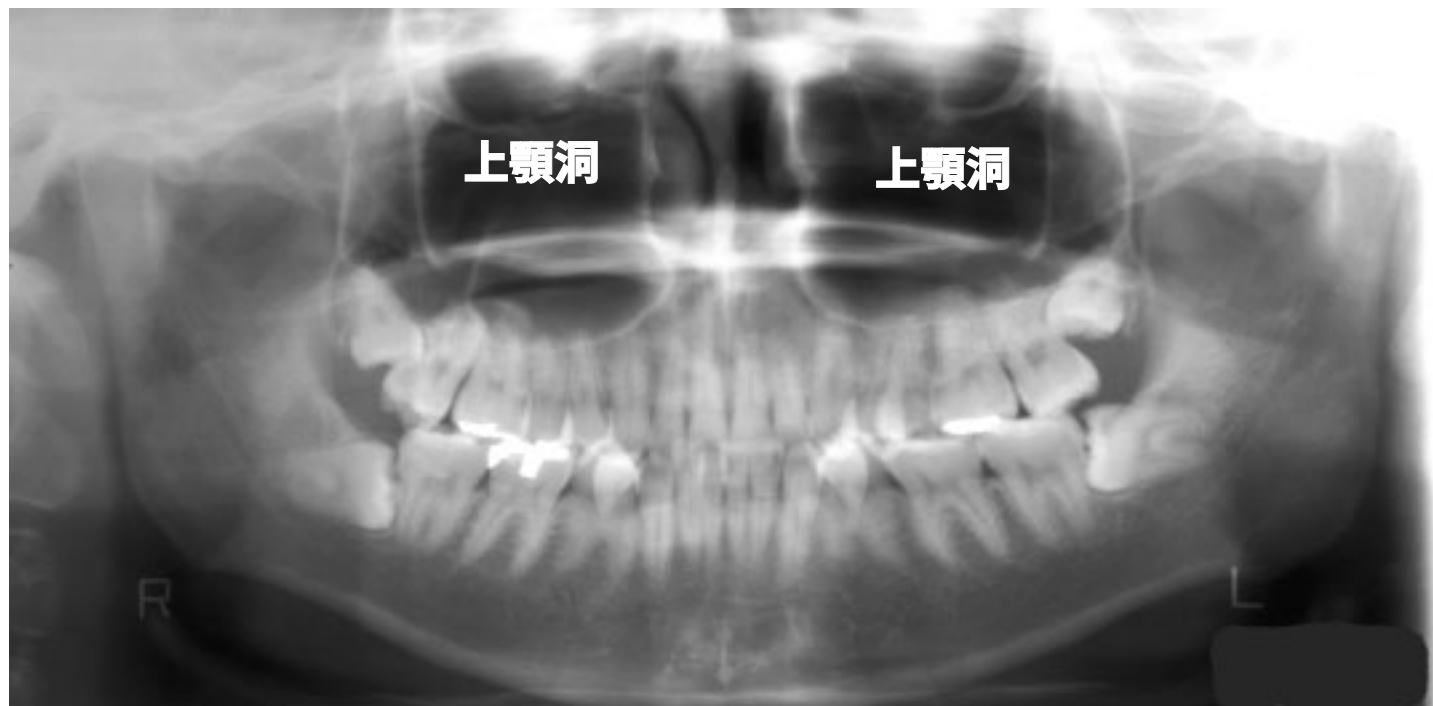
上顎骨 (右側)



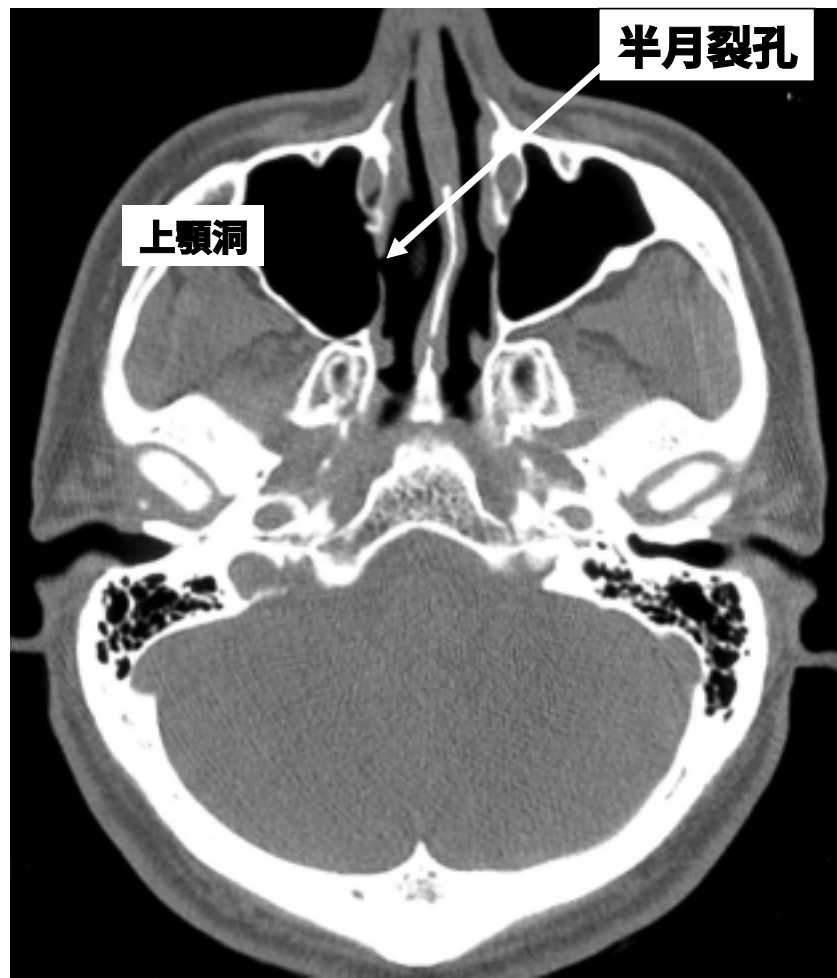
上顎骨 (右側)



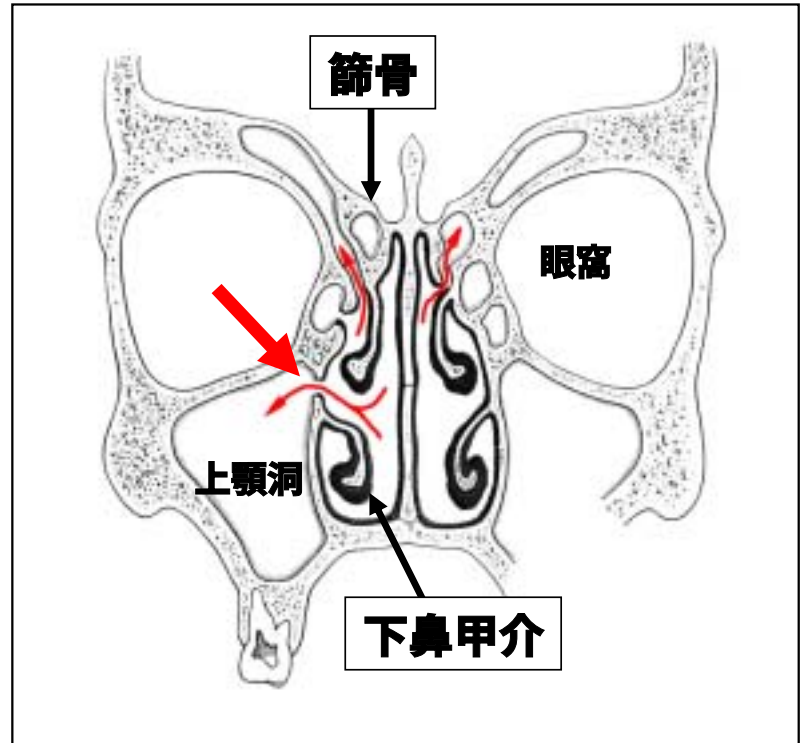
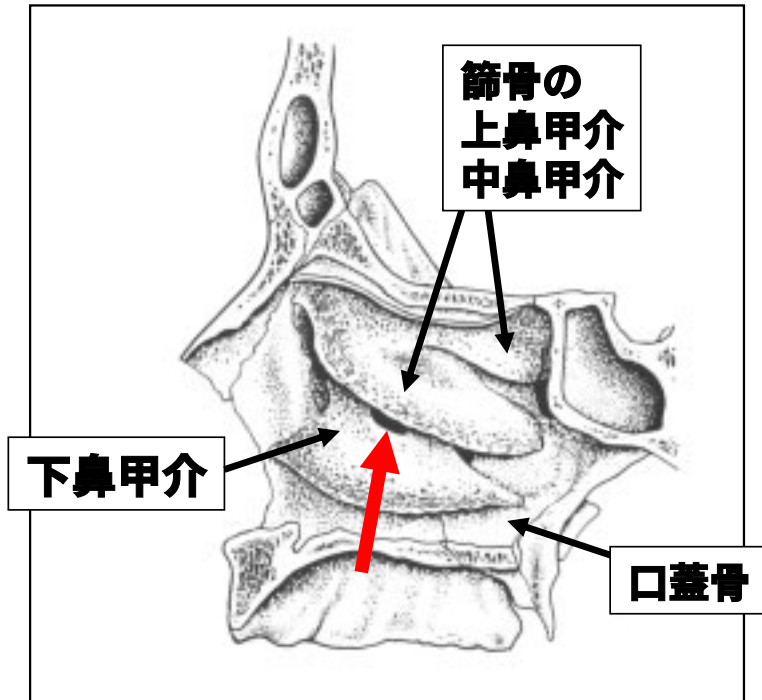
上顎洞



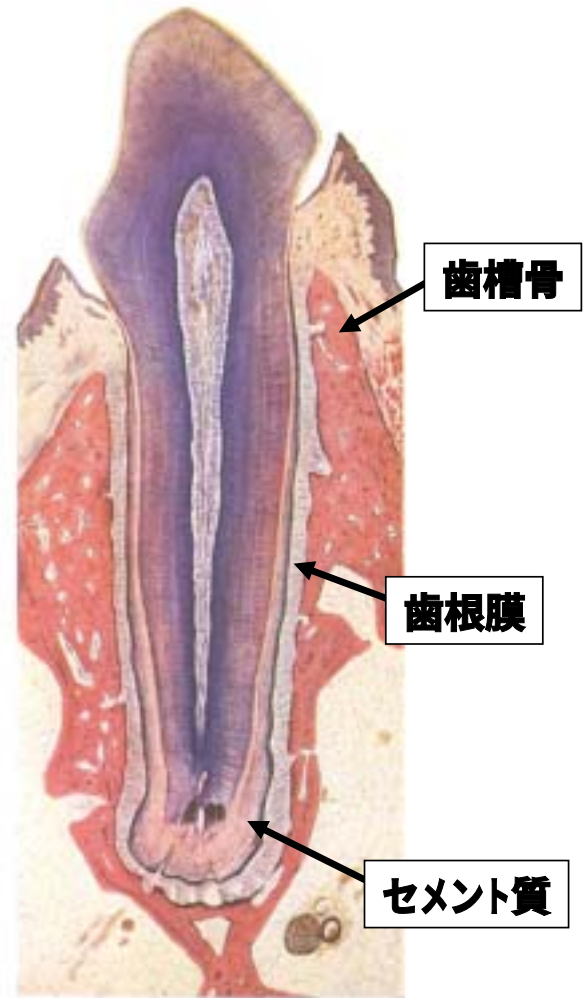
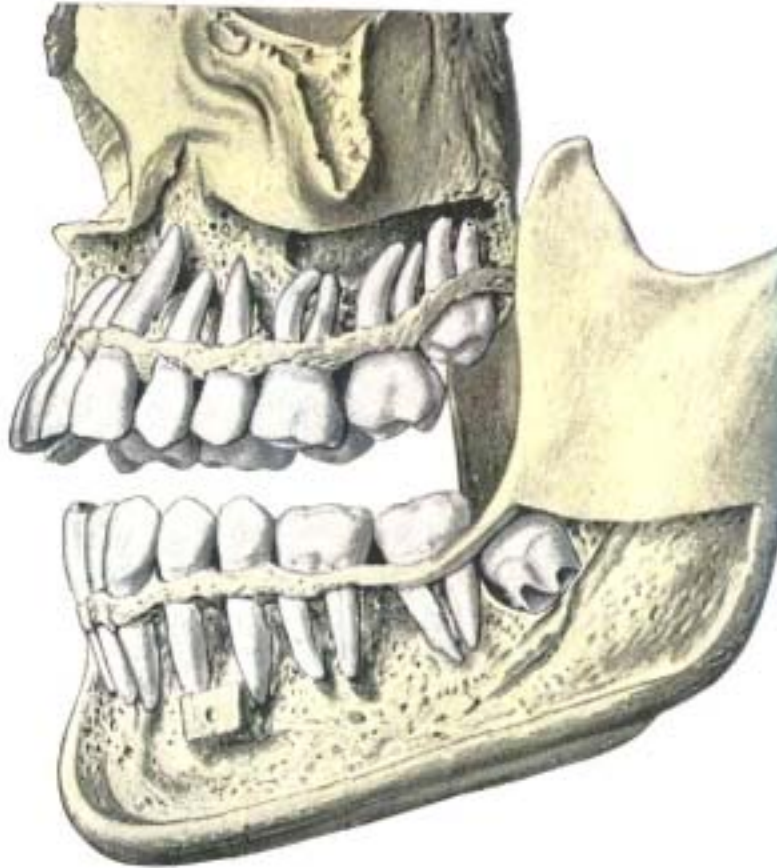
上顎洞裂孔と半月裂孔の関係



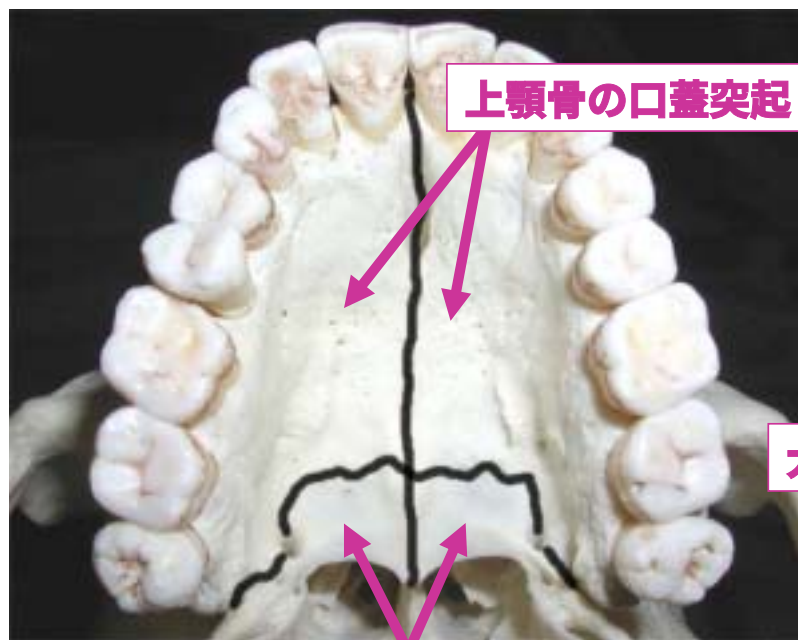
半月裂孔



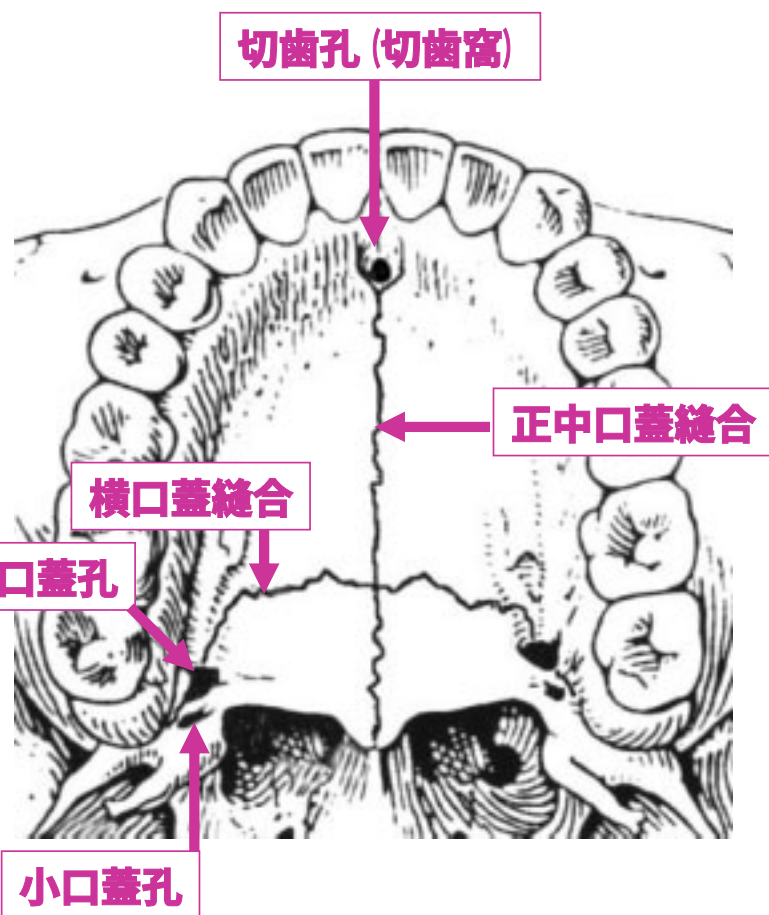
釘 植



骨口蓋 (上顎骨 + 口蓋骨)

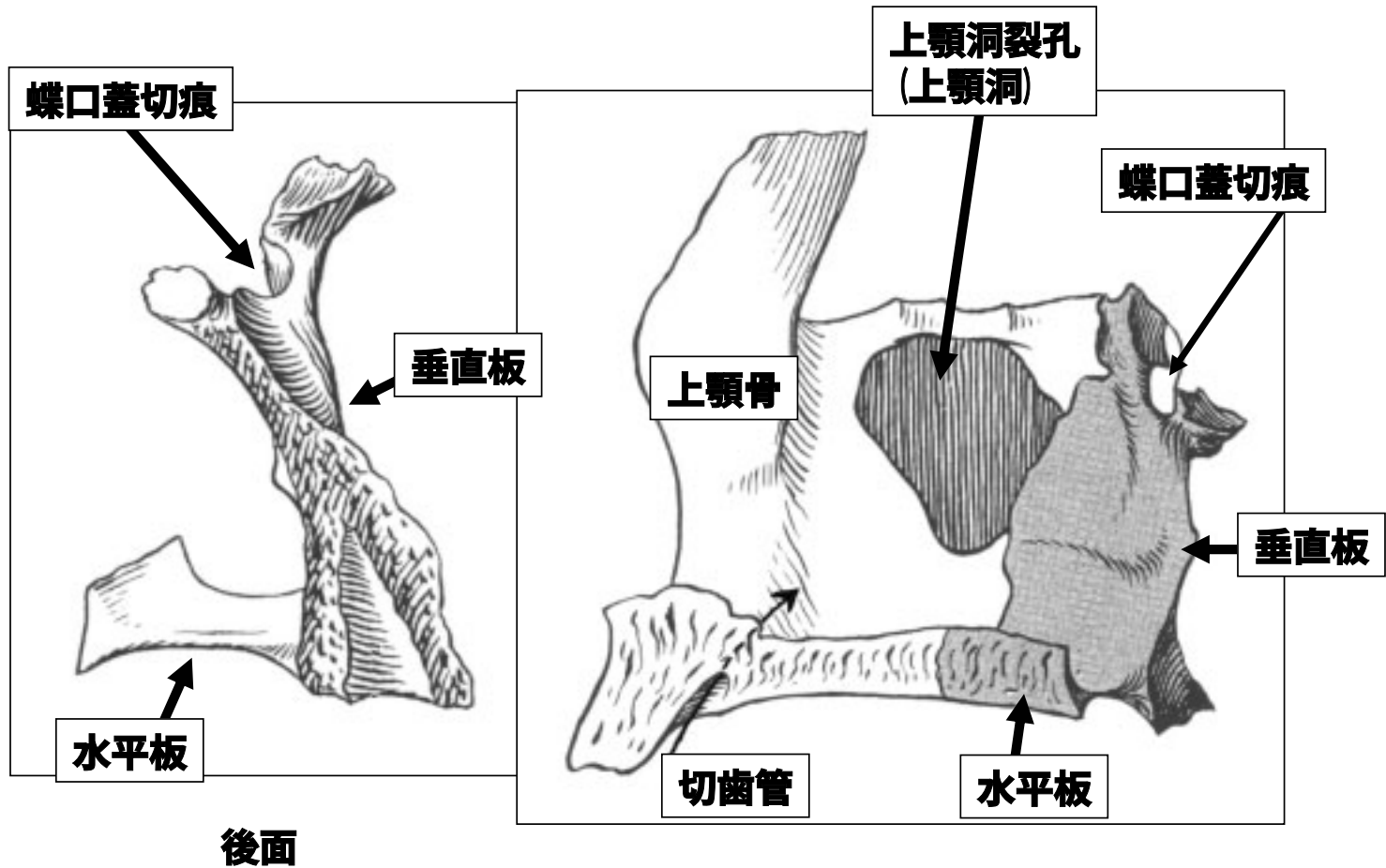


口蓋骨の水平板



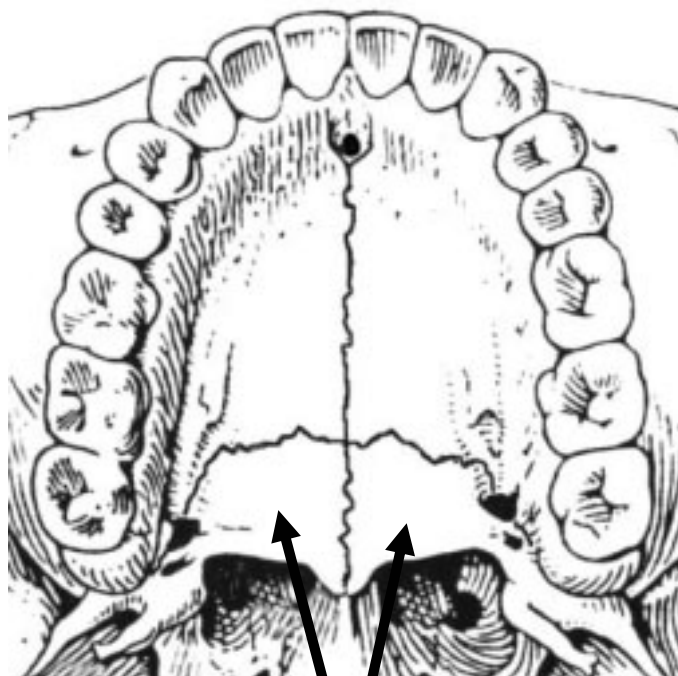
口蓋骨

口蓋骨

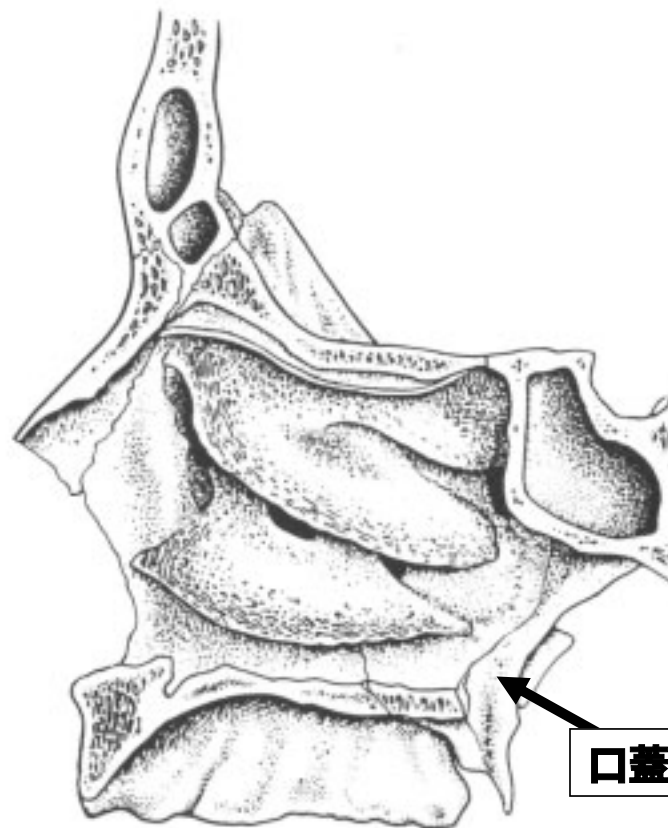


上顎骨と口蓋骨の内側面

口蓋骨の位置

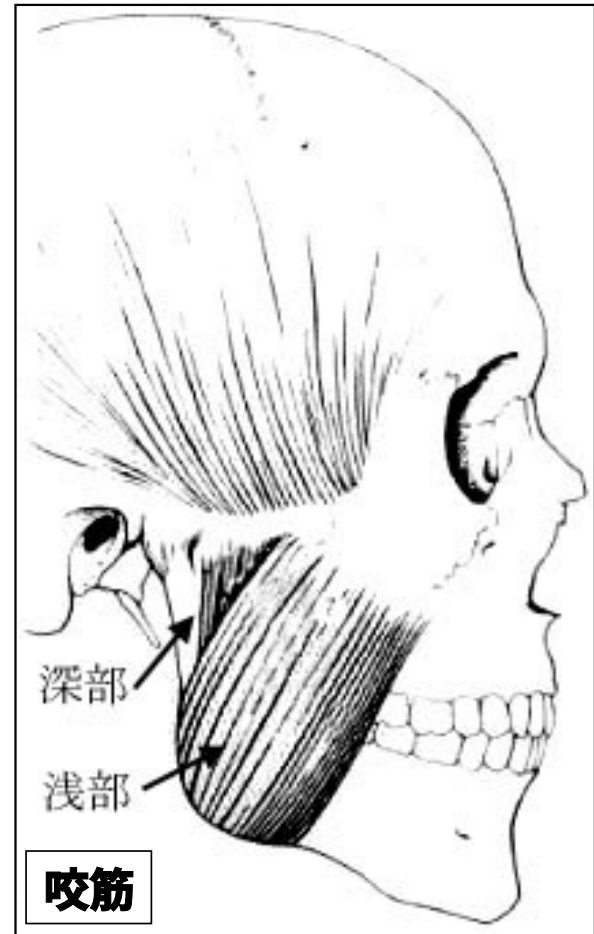
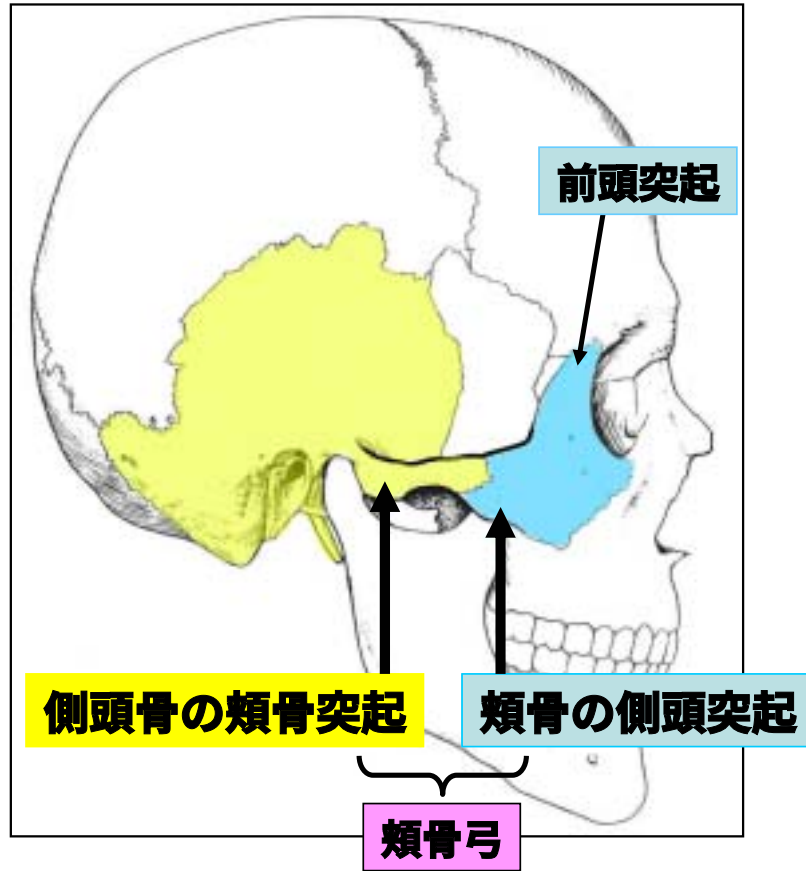


口蓋骨



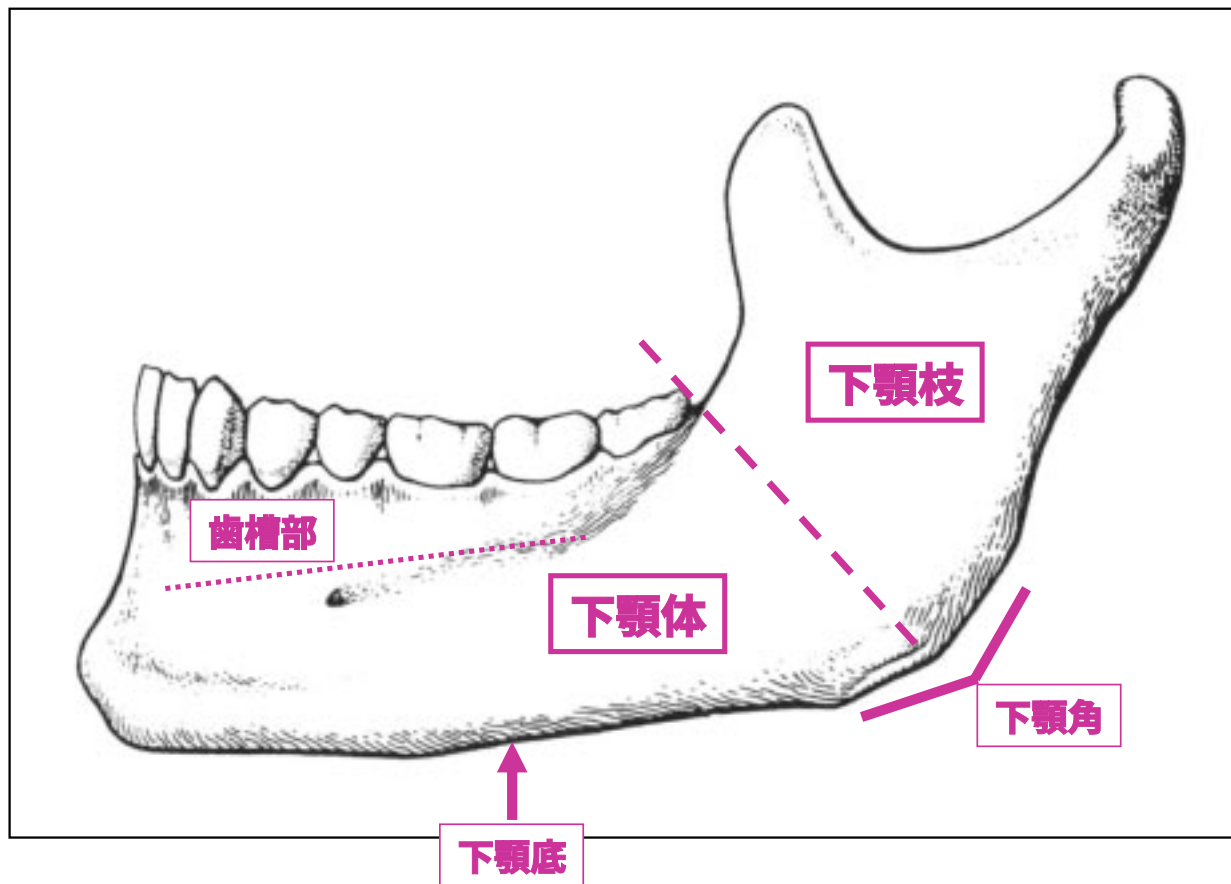
口蓋骨

頬 骨

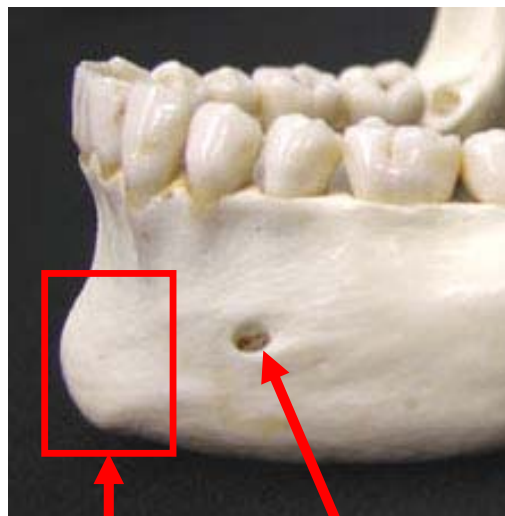


下顎骨

下顎骨

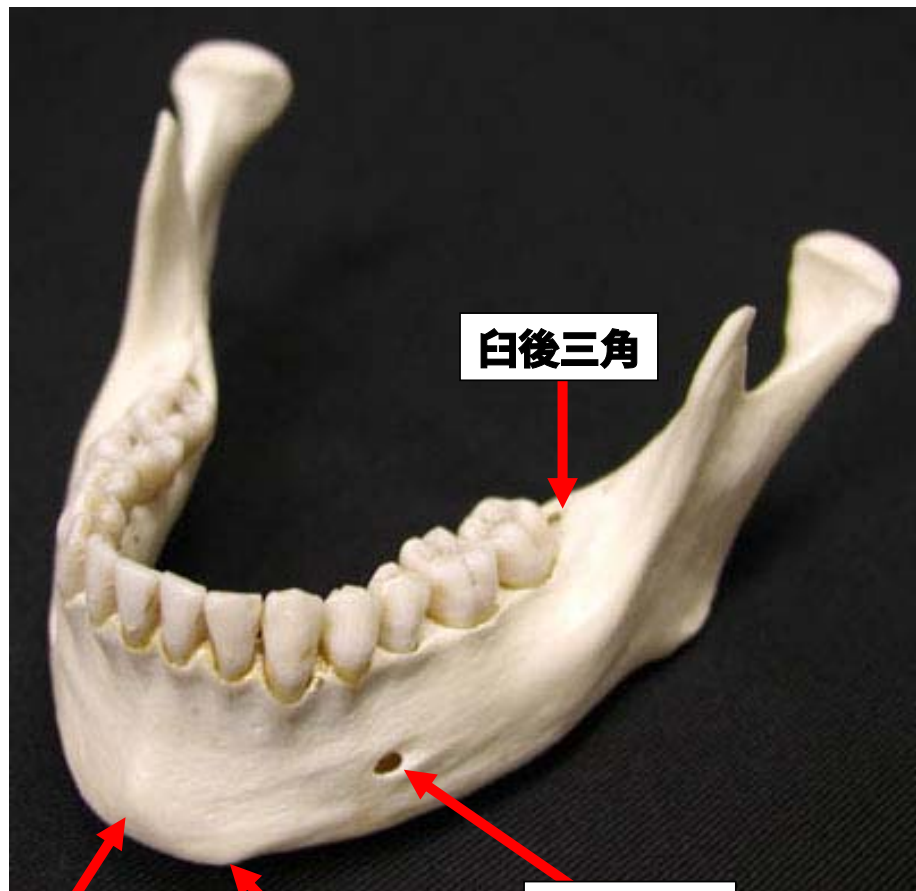


下顎体 外面



オトガイ

オトガイ孔



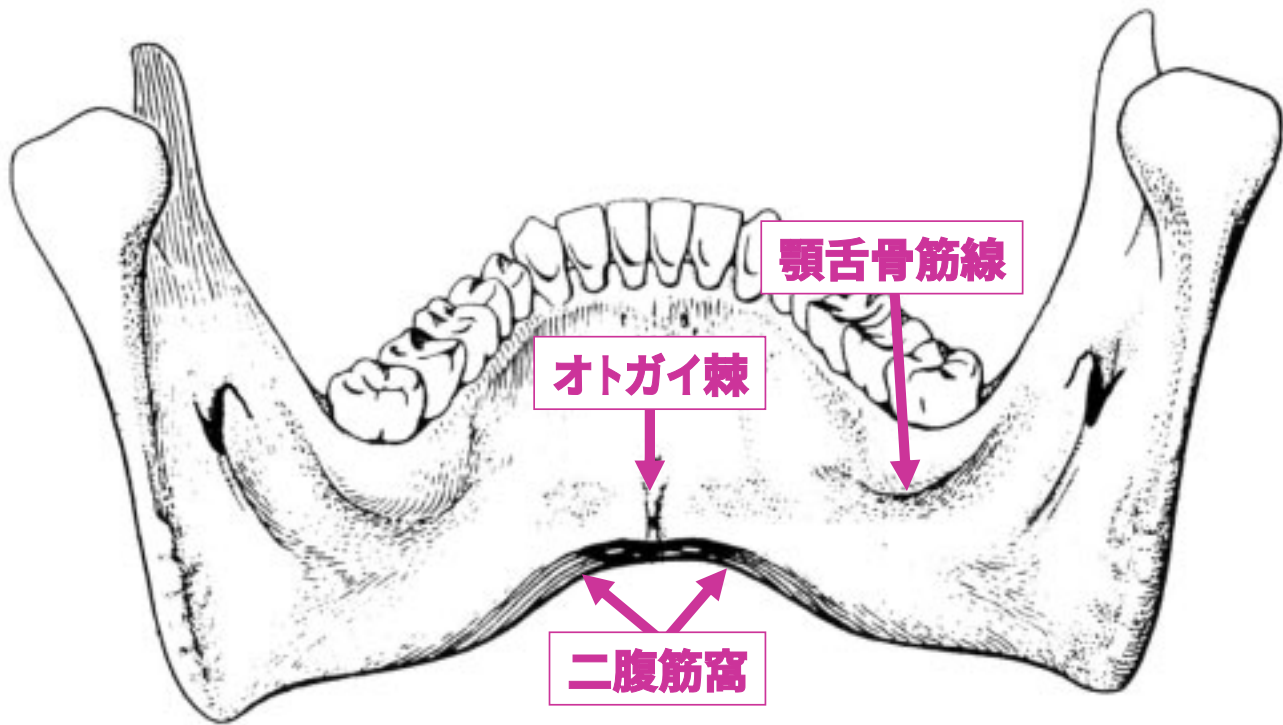
臼後三角

オトガイ孔

オトガイ隆起

オトガイ結節

下顎体 内面



下顎管

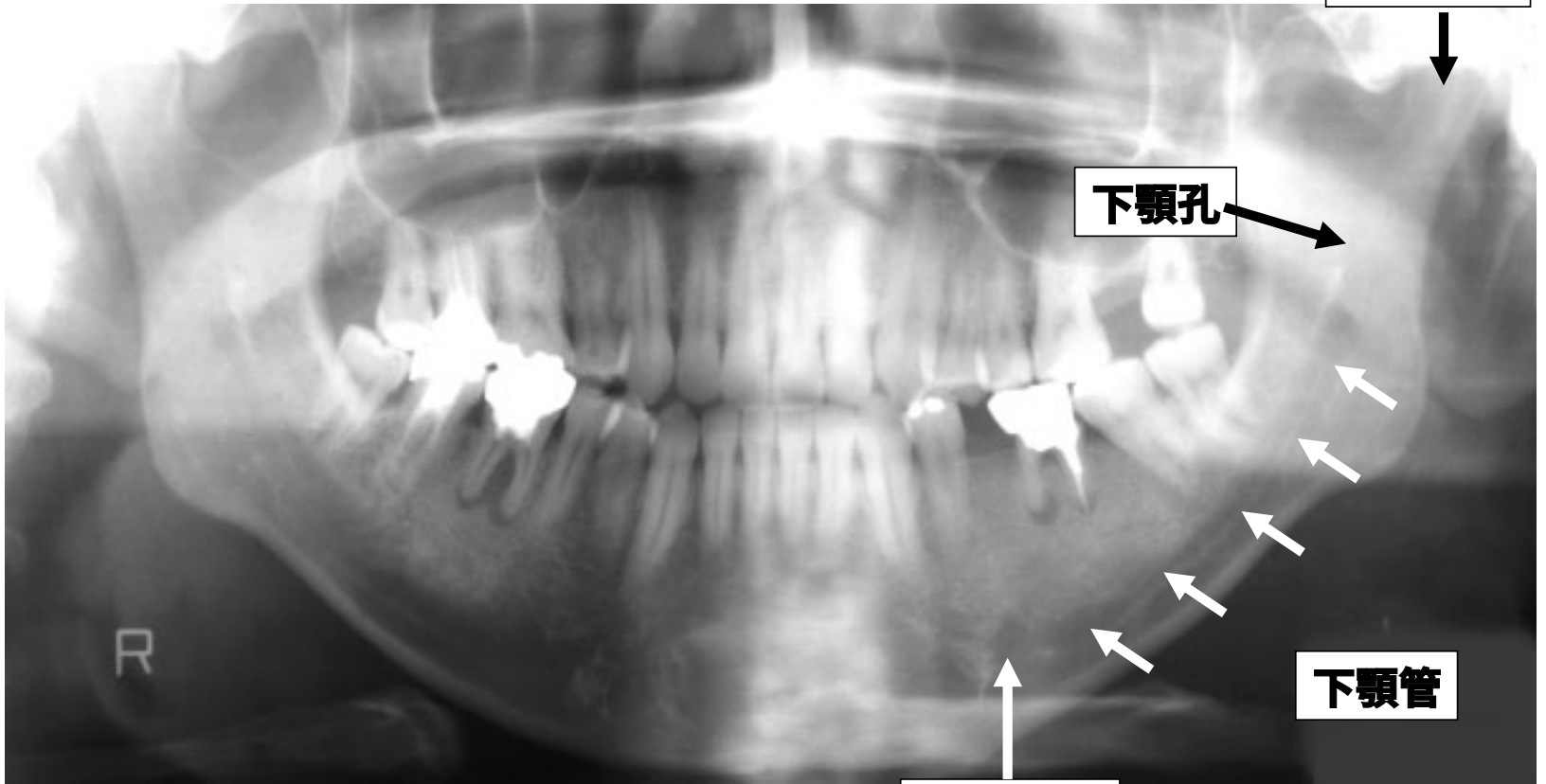
関節突起

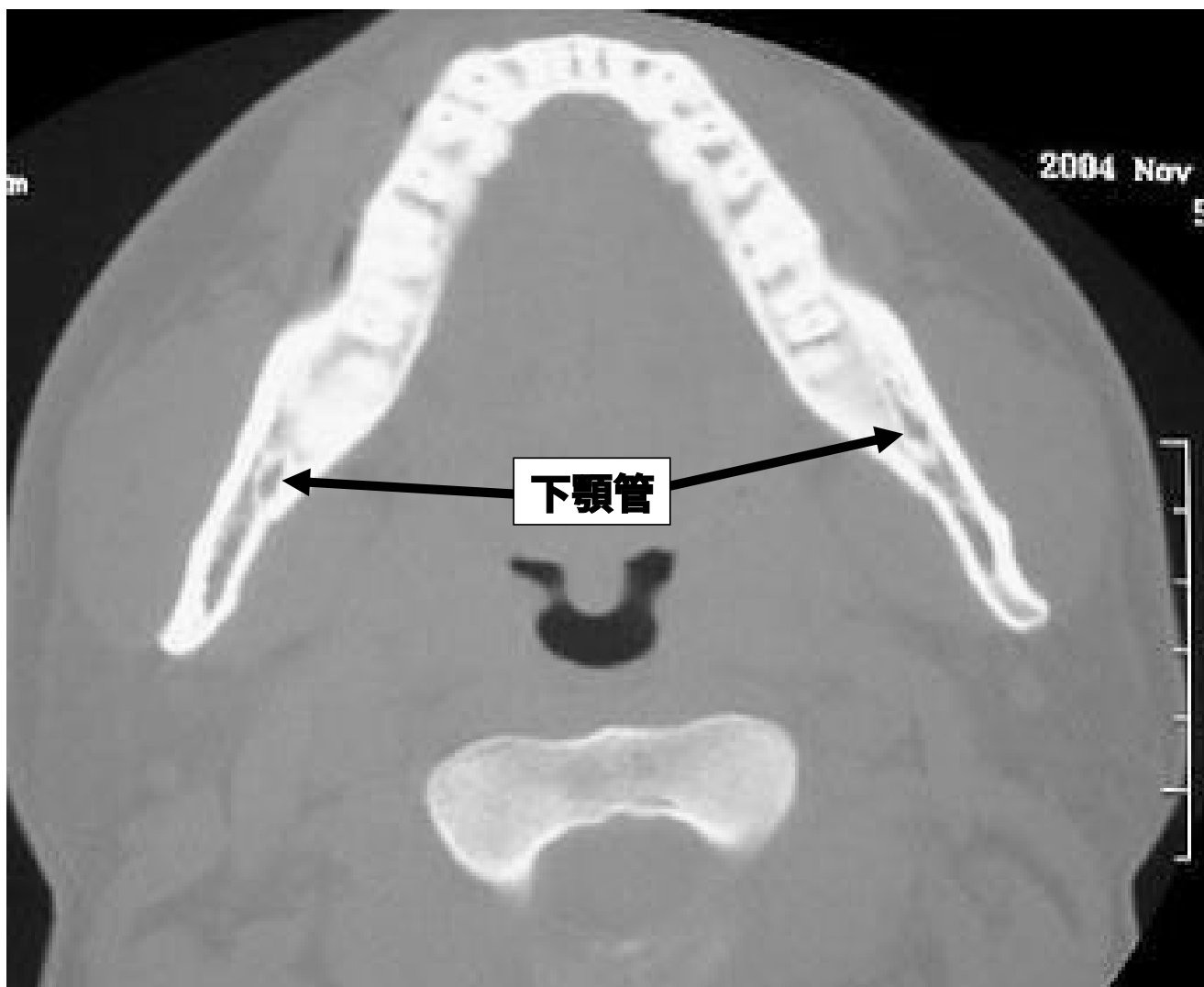
下顎孔

下顎管

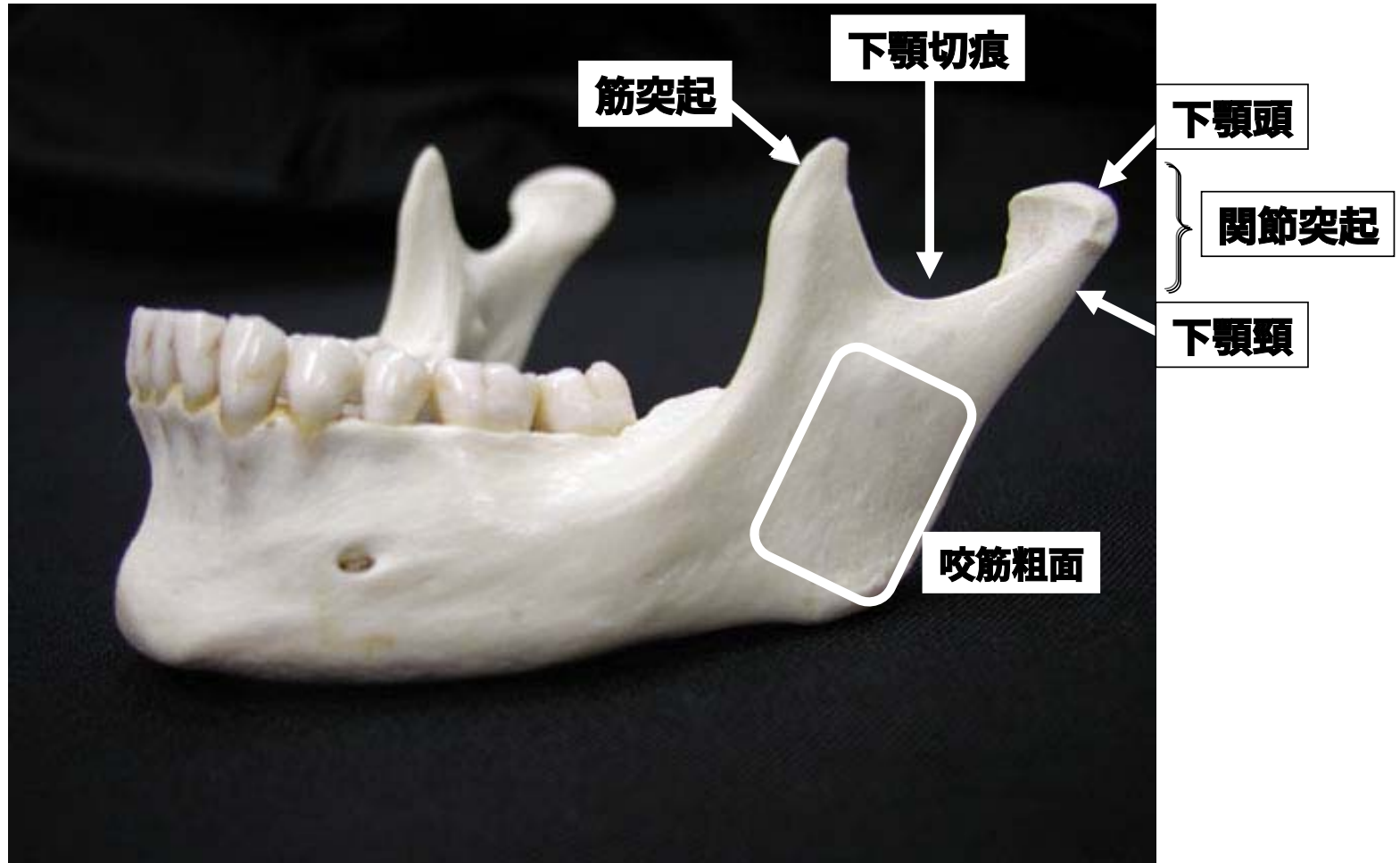
オトガイ孔

R

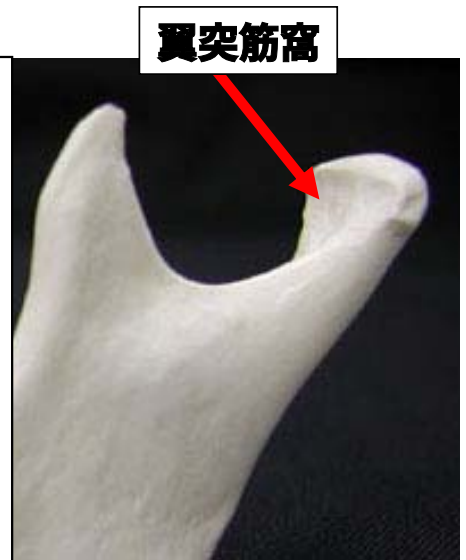
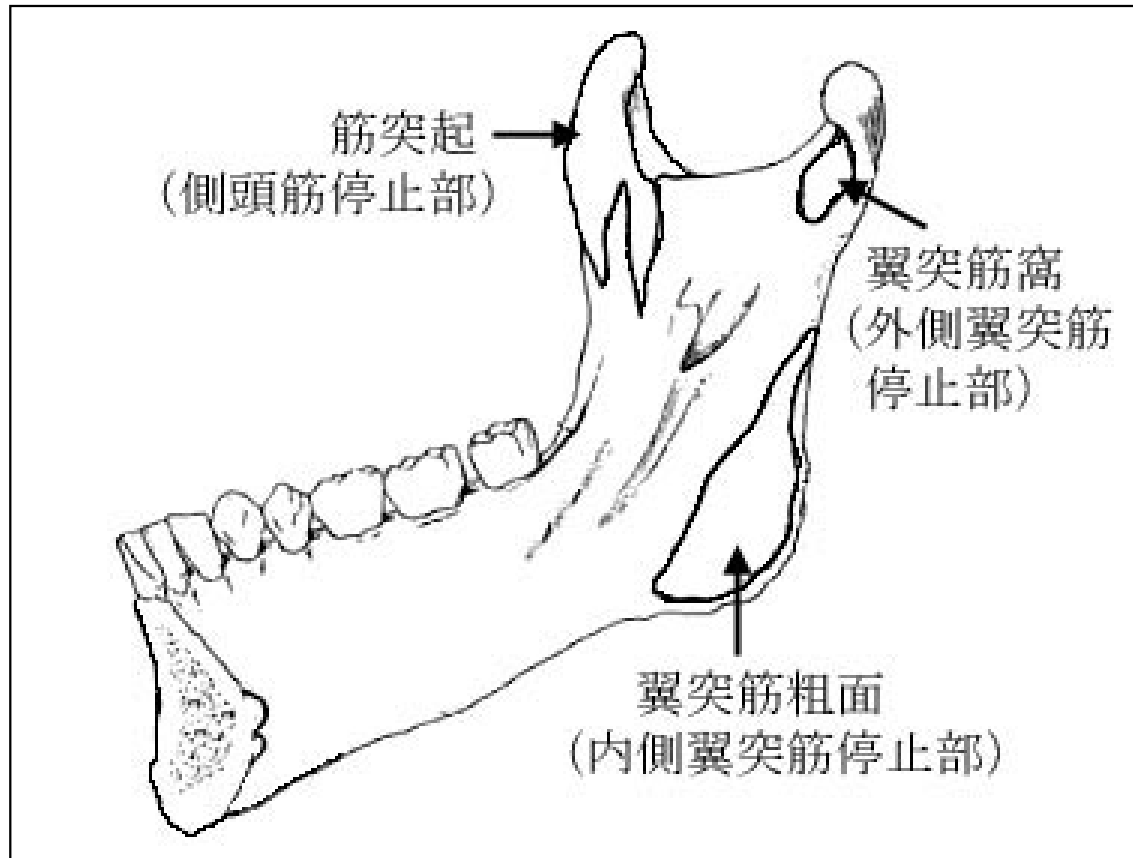




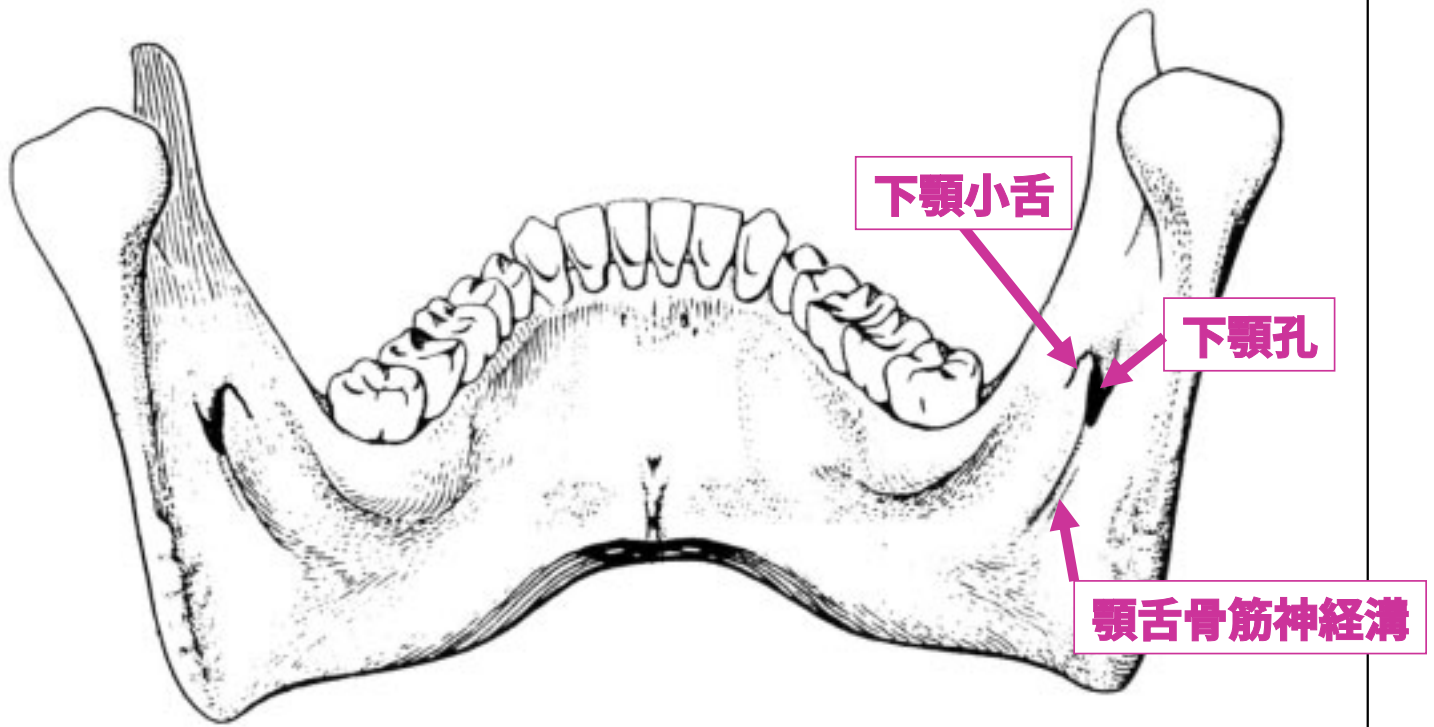
下顎枝 外面



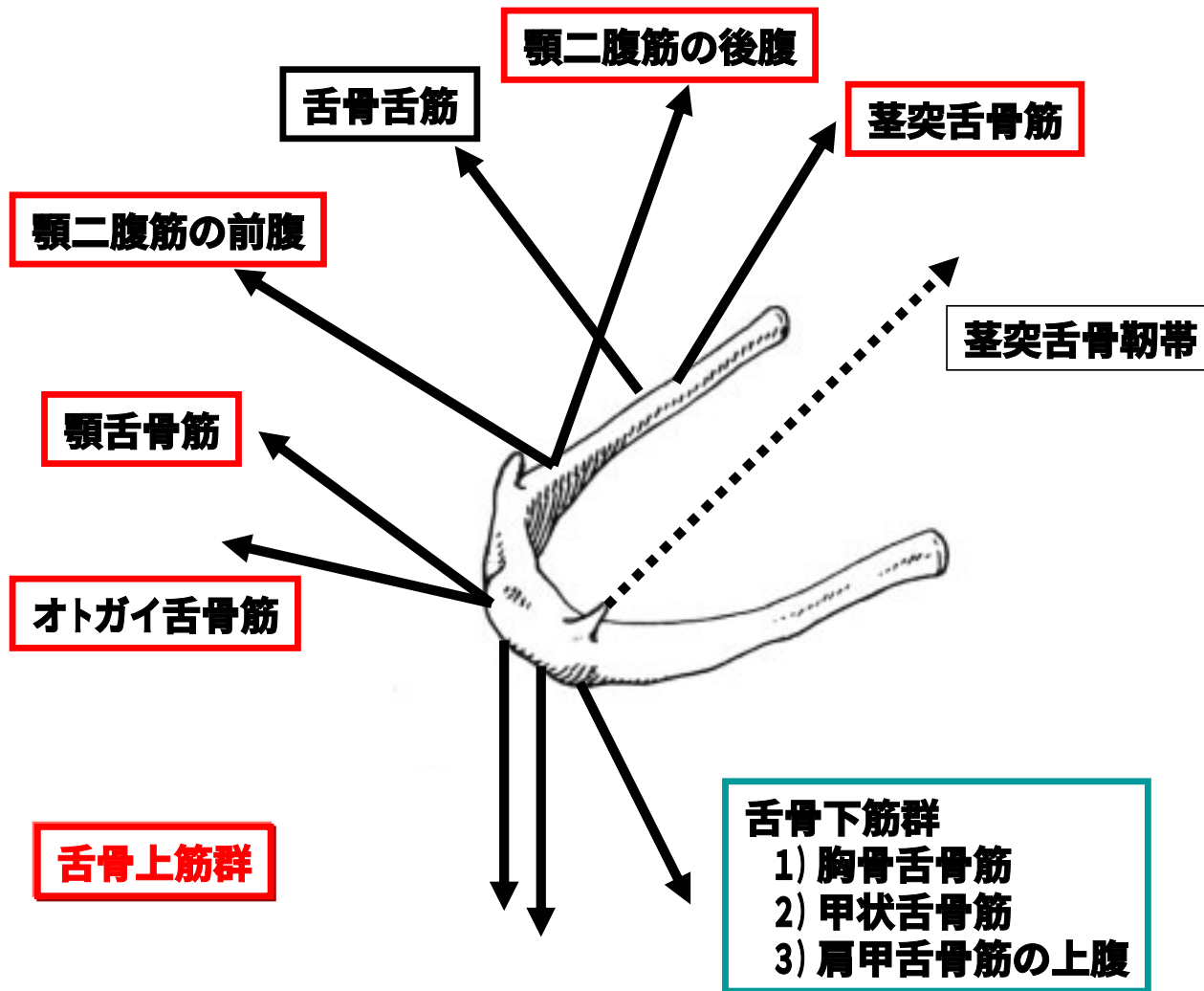
下顎枝 内面



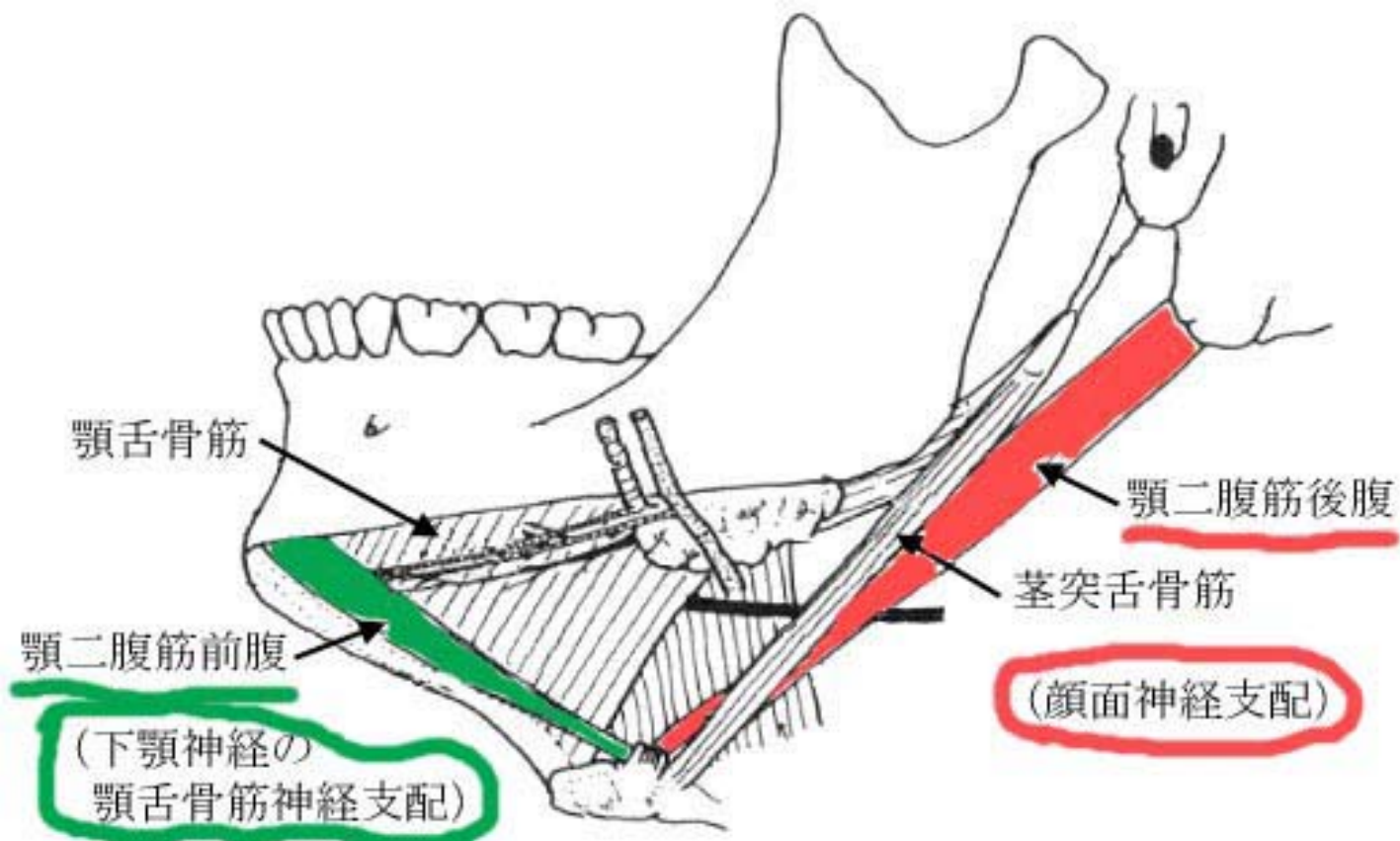
下顎枝 内面



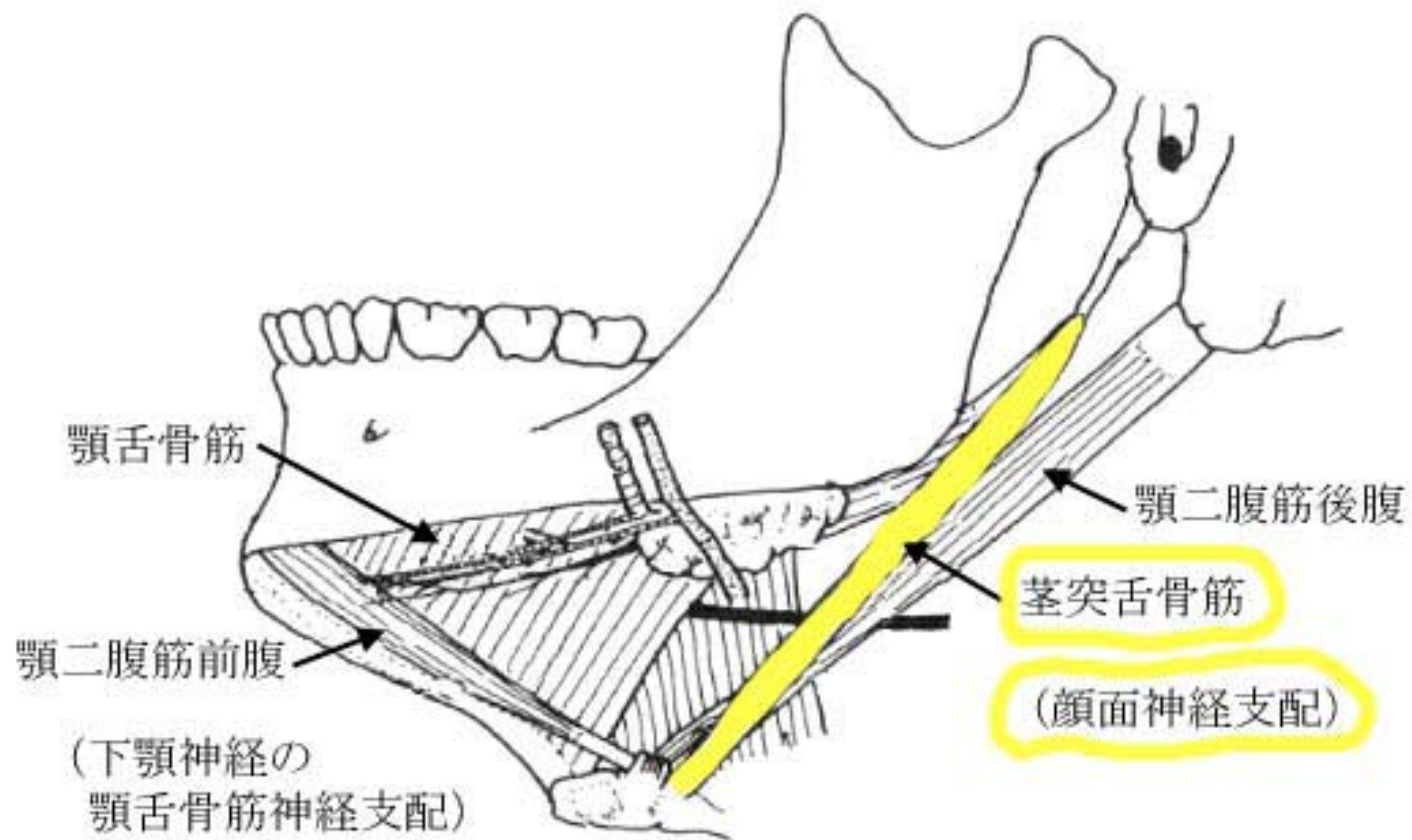
舌 骨



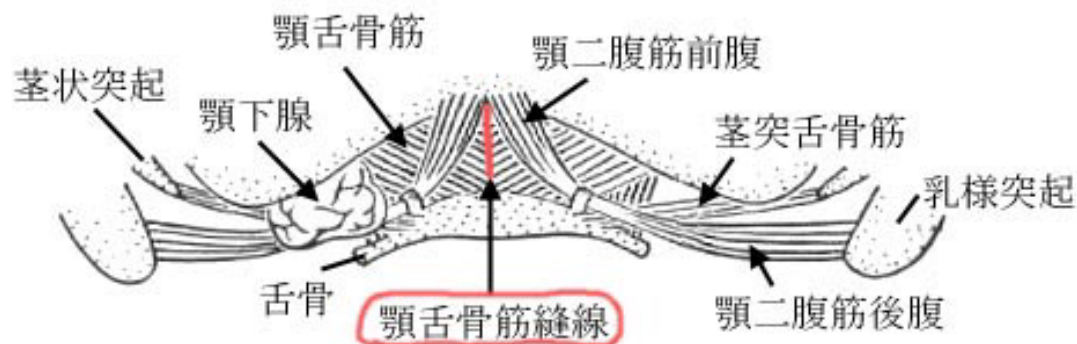
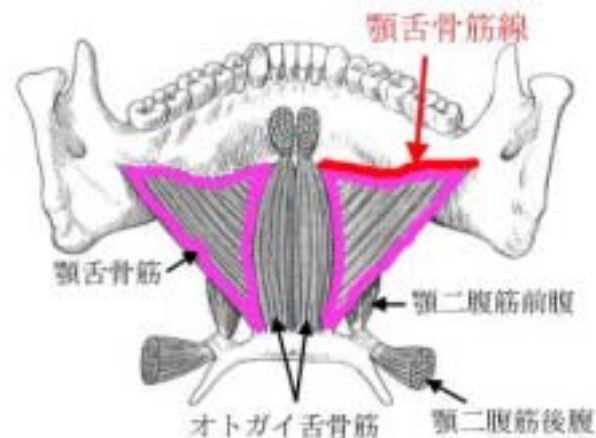
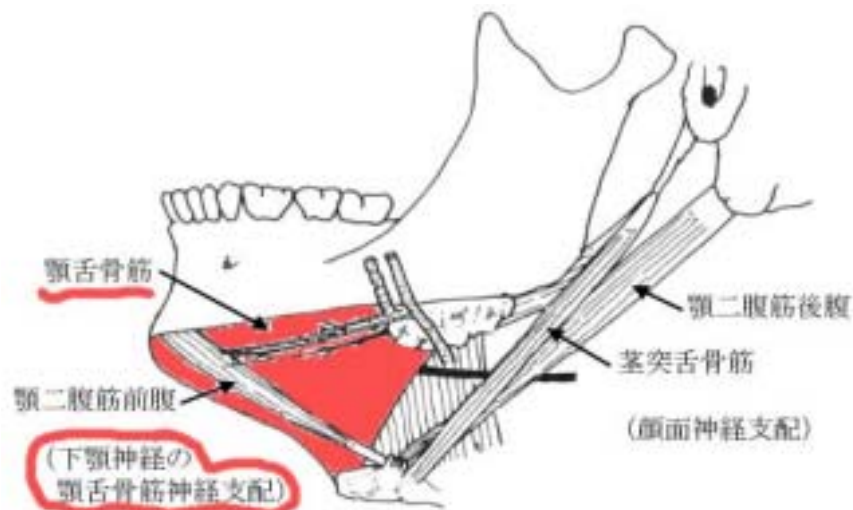
顎二腹筋



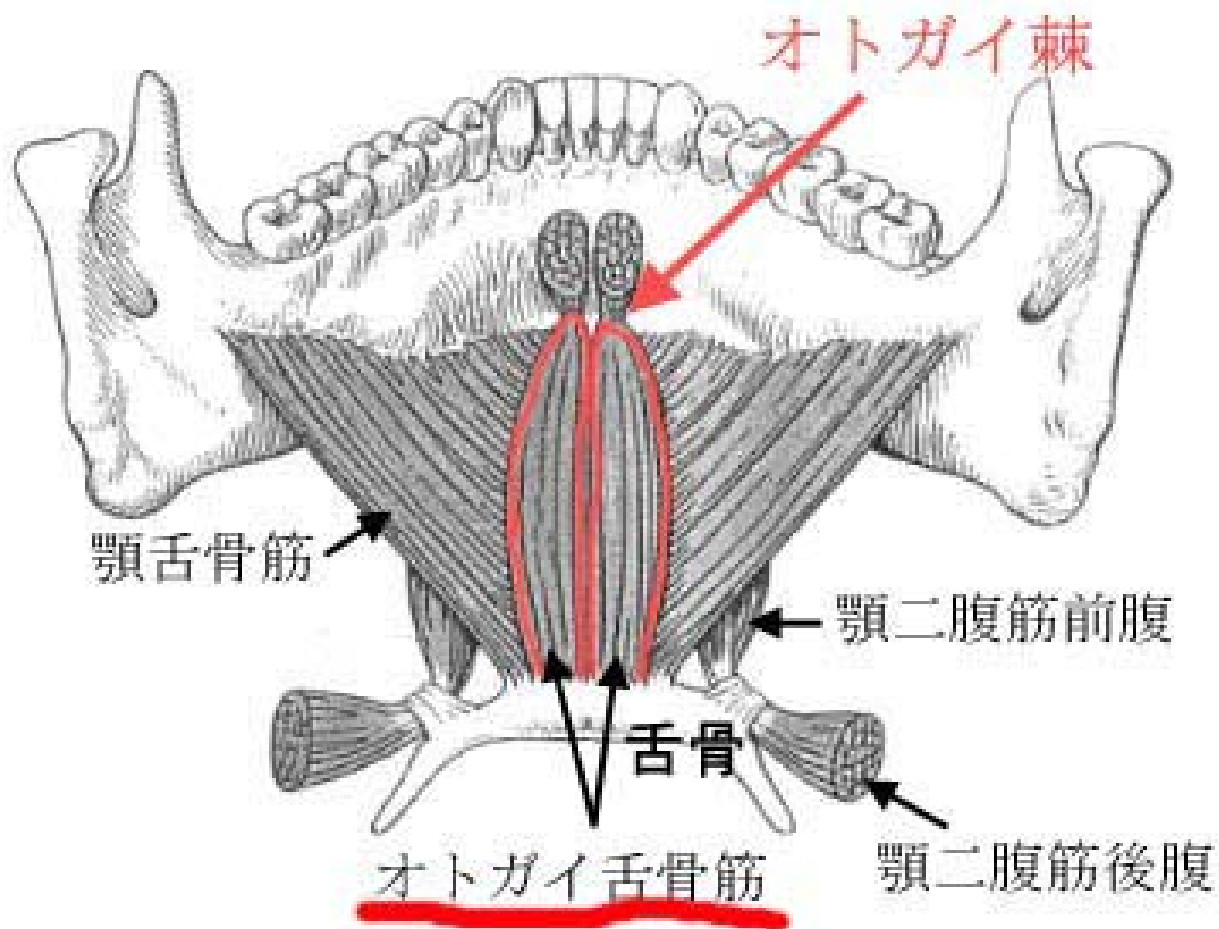
茎突舌骨筋



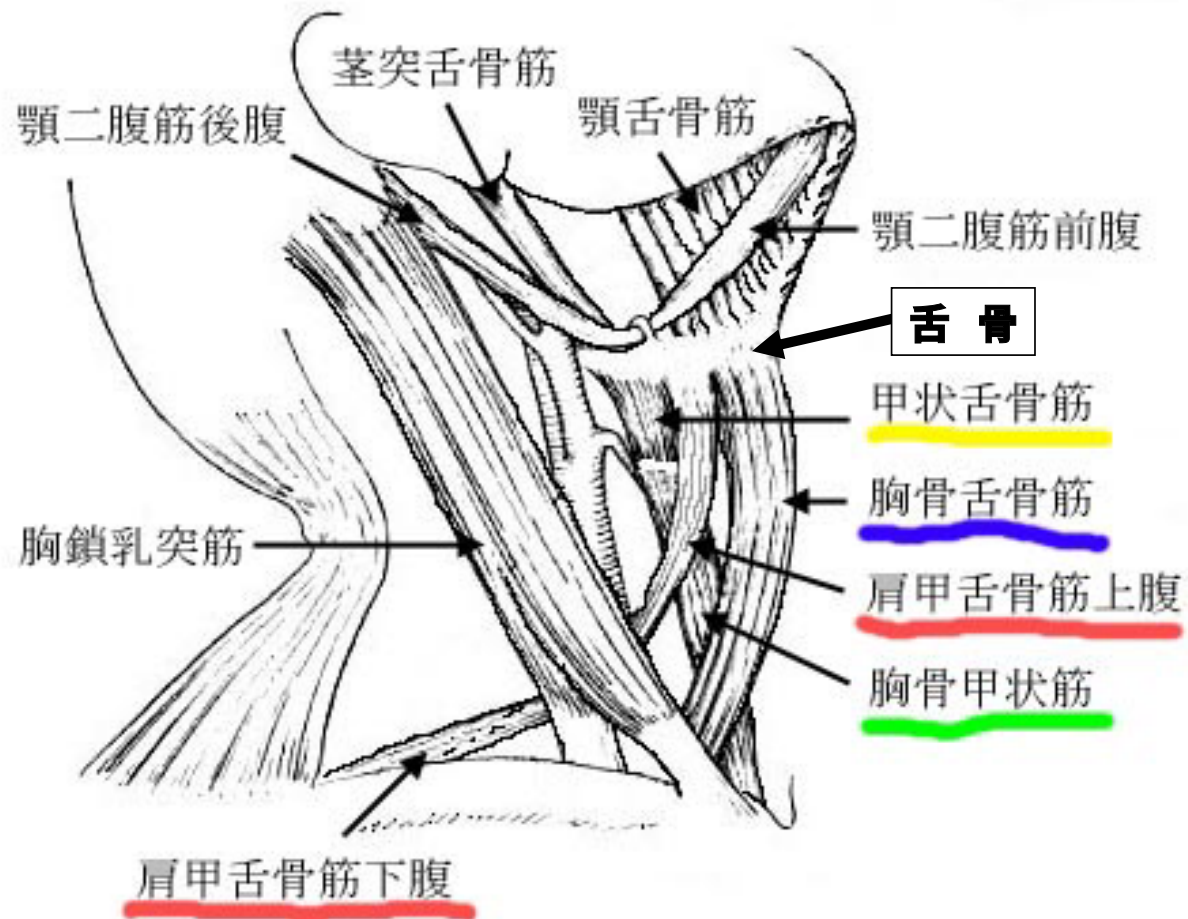
顎舌骨筋



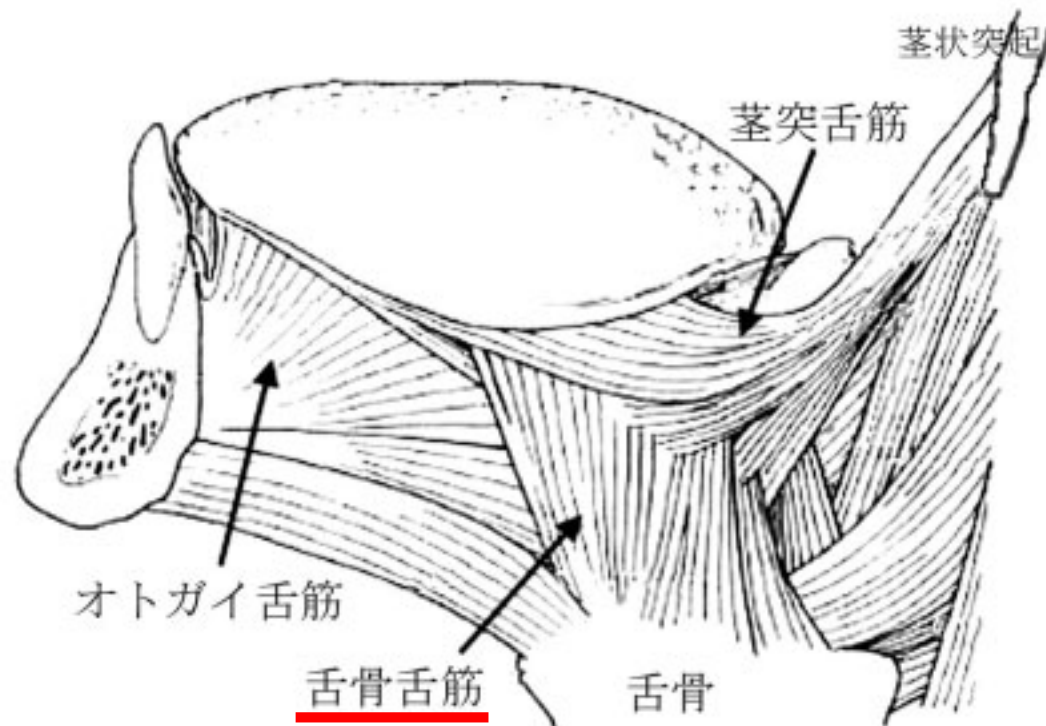
オトガイ舌骨筋



舌骨下筋群

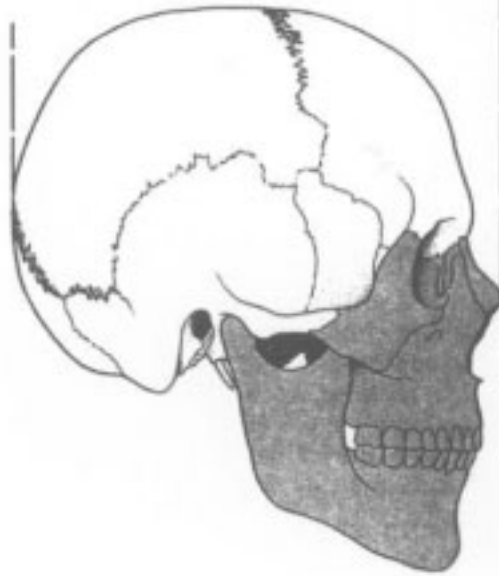
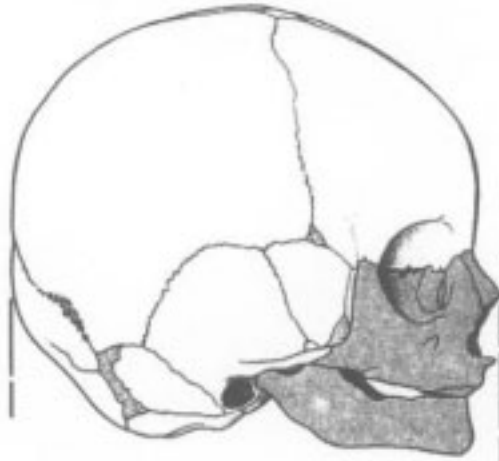


舌骨舌筋



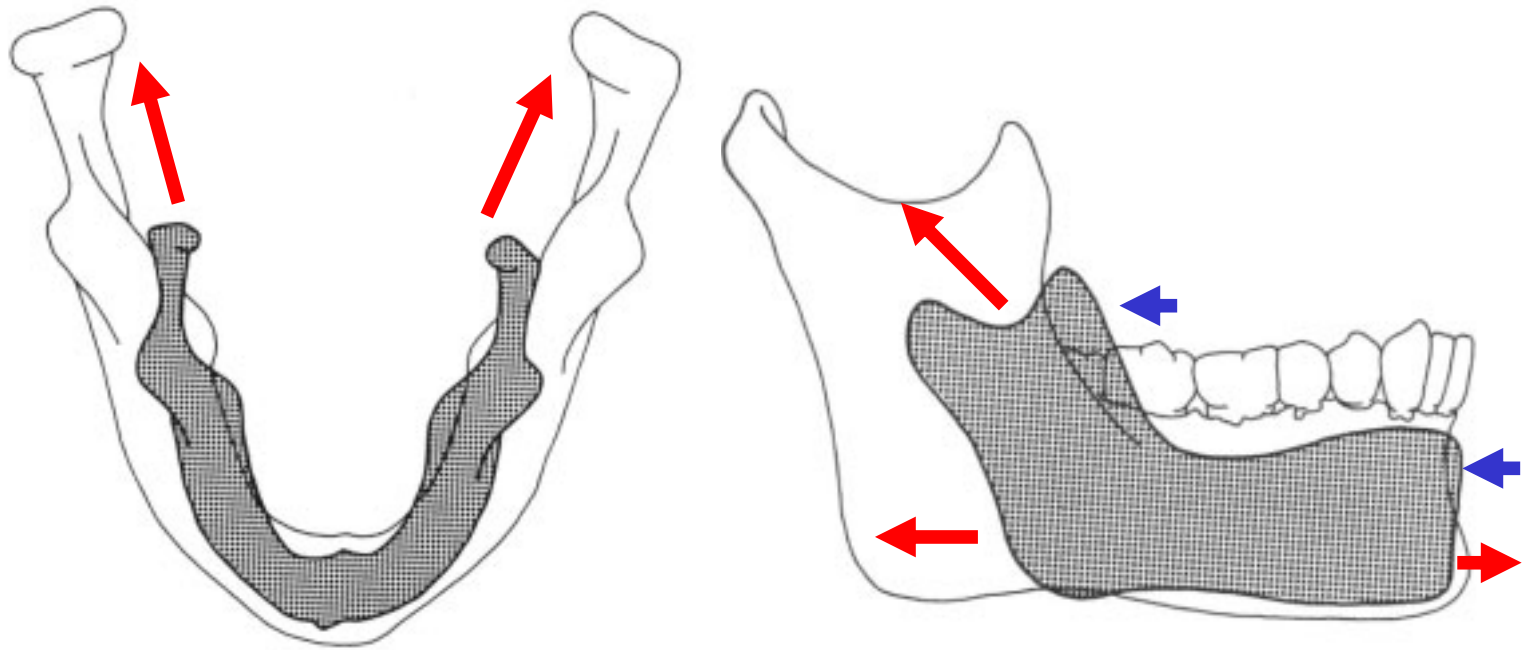
顔面と下顎骨の成長

頭蓋の成長

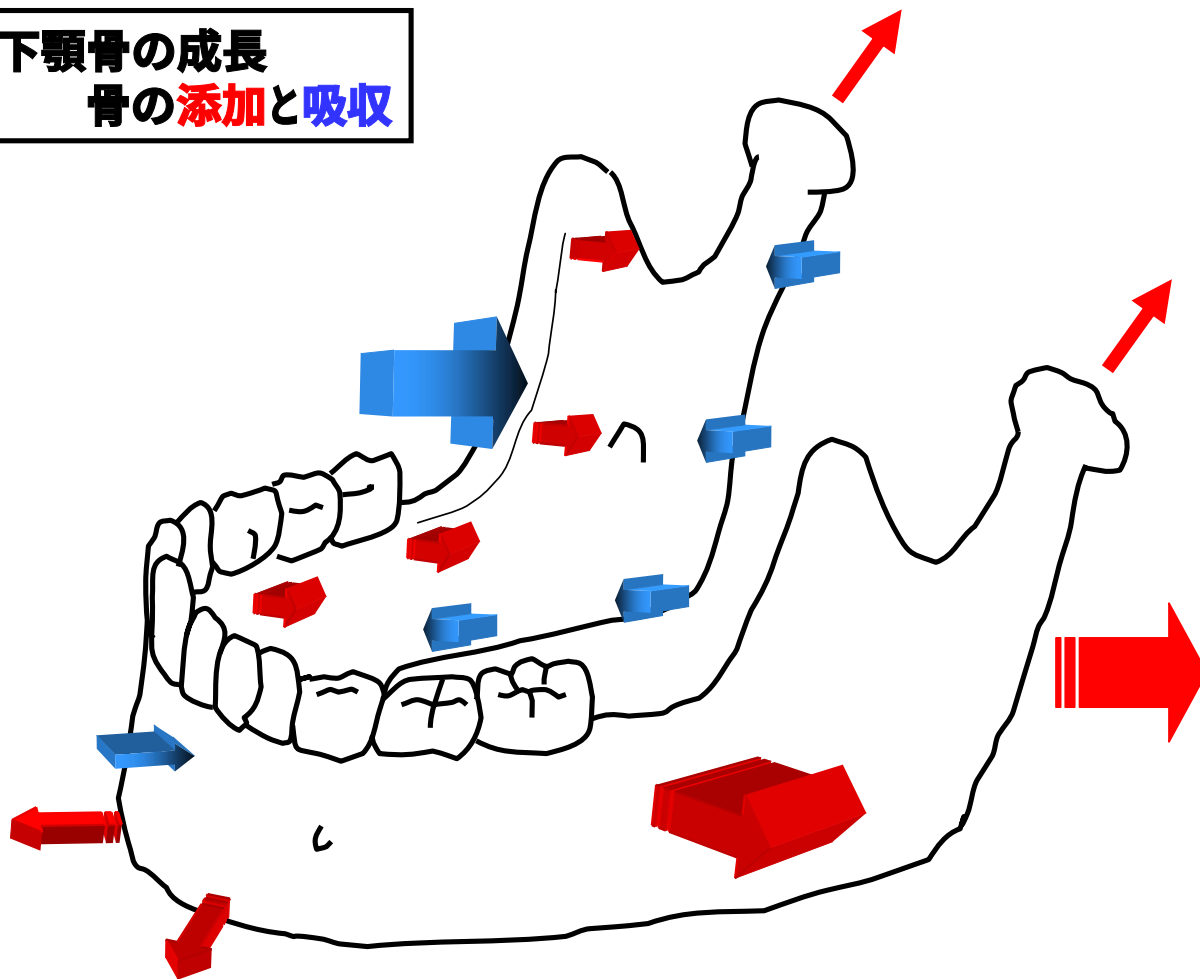


上顎骨と下顎骨の
著しい発育

下顎の成長

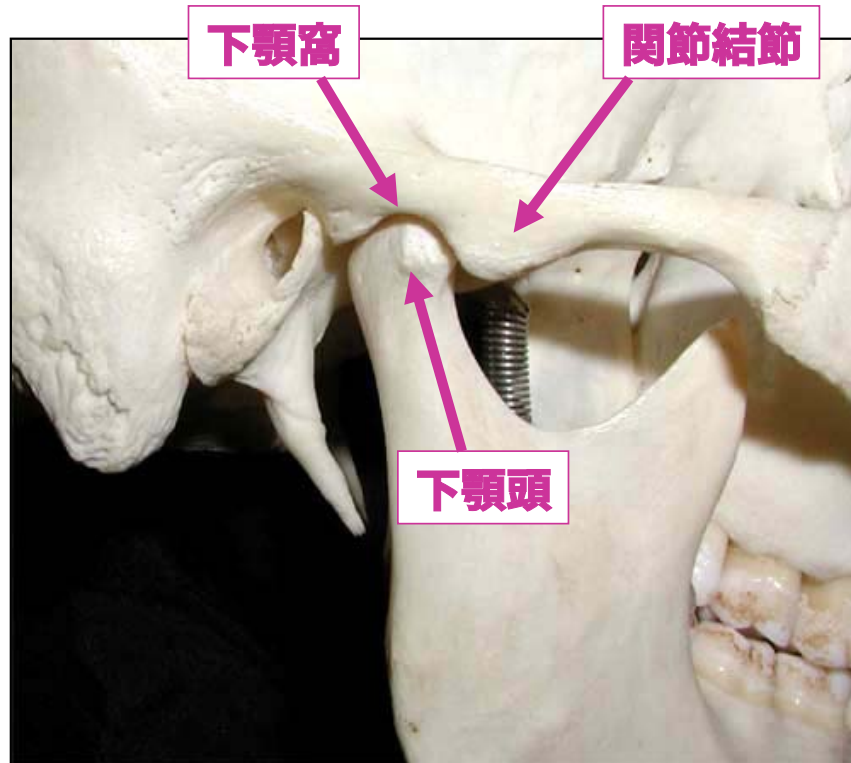


下顎骨の成長
骨の**添加**と**吸収**

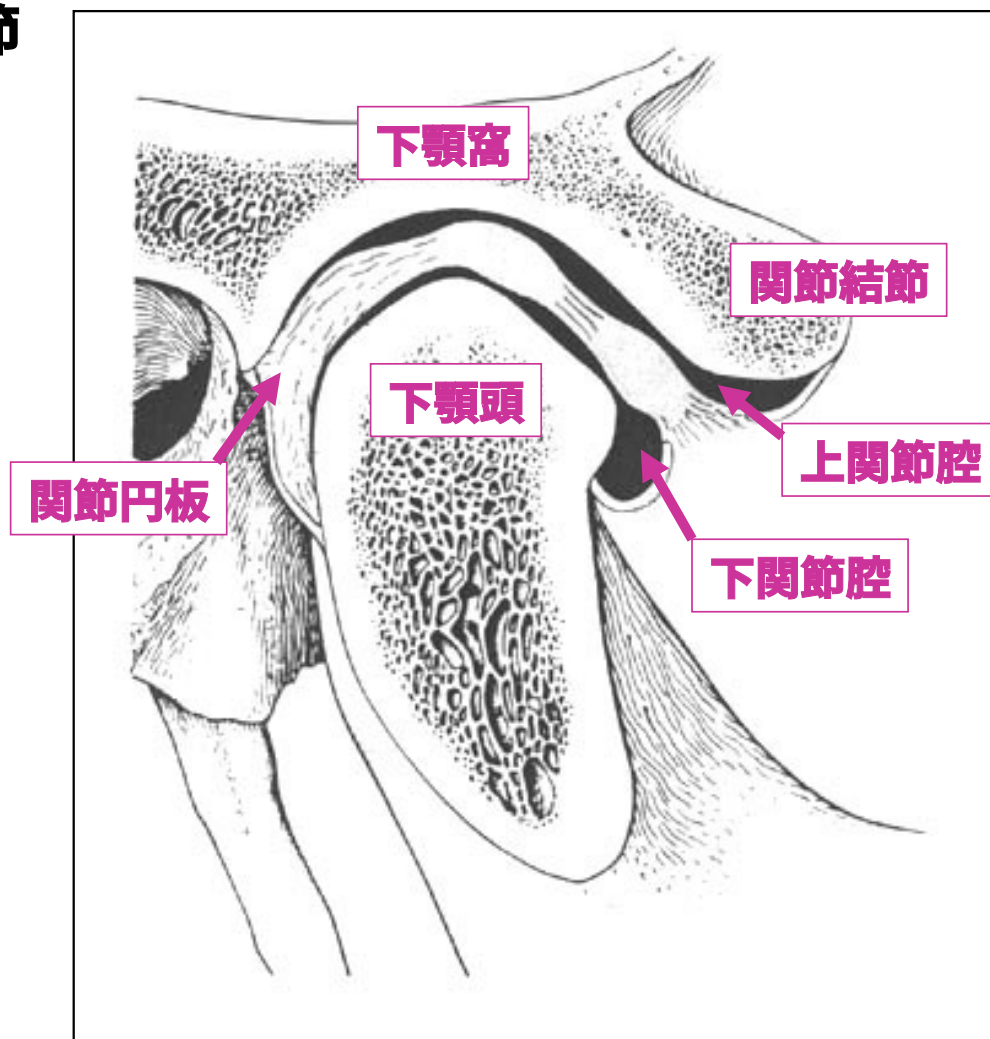


顎 関 節

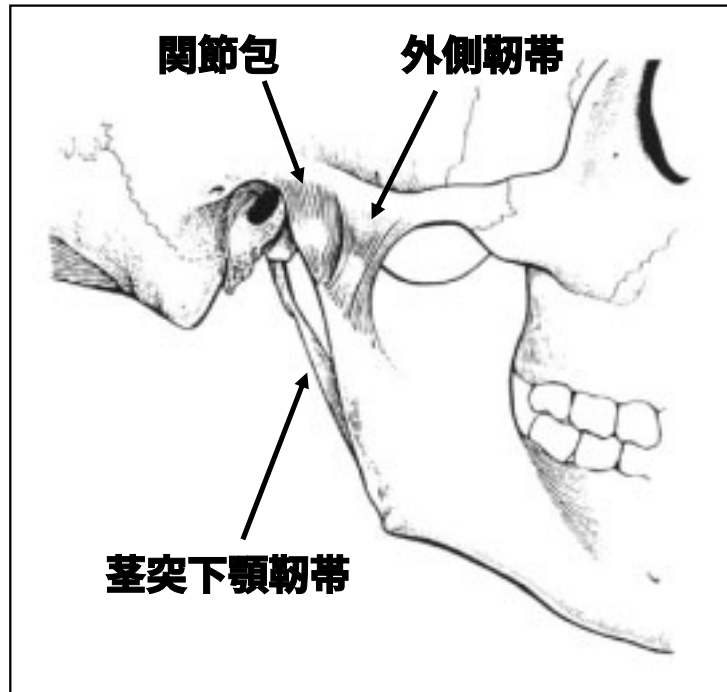
顎関節



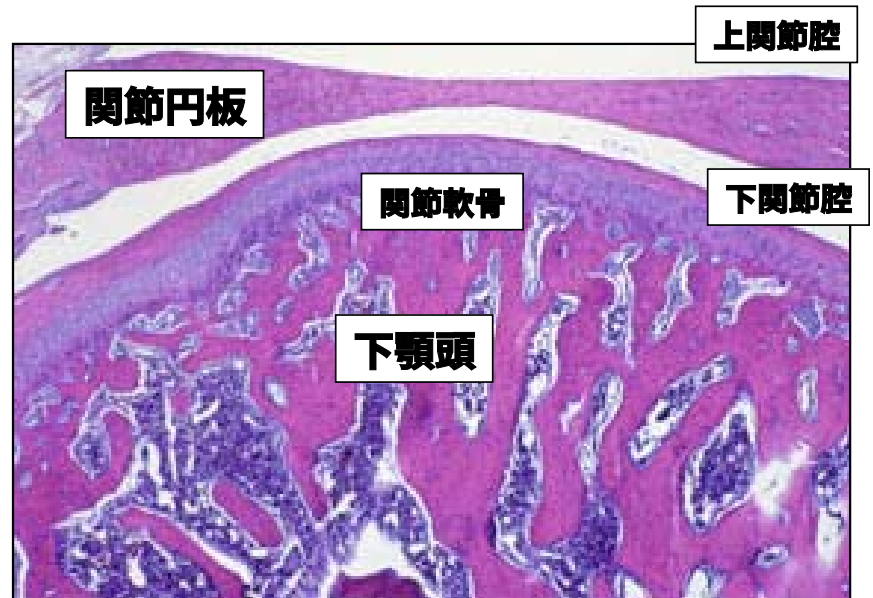
顎関節



顎関節 関節包と靱帯



下顎頭の表層

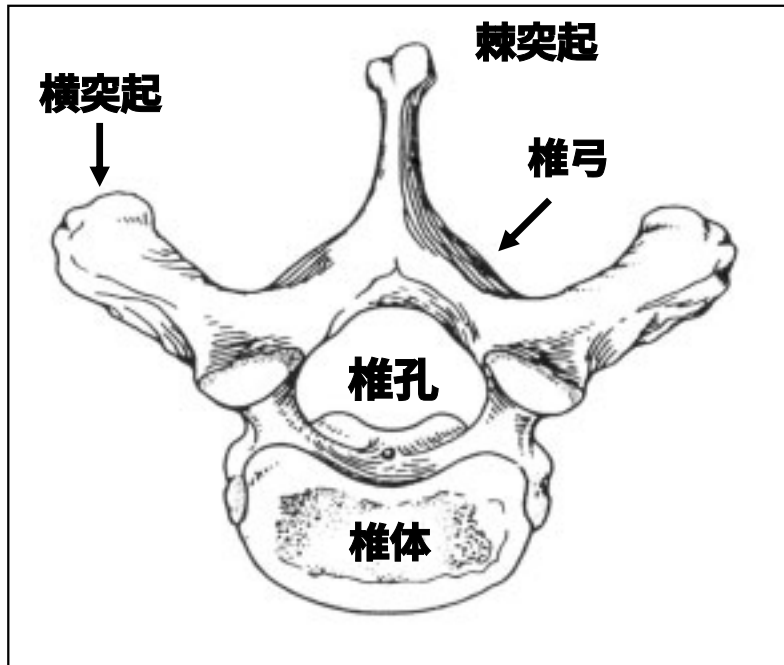


脊 柱

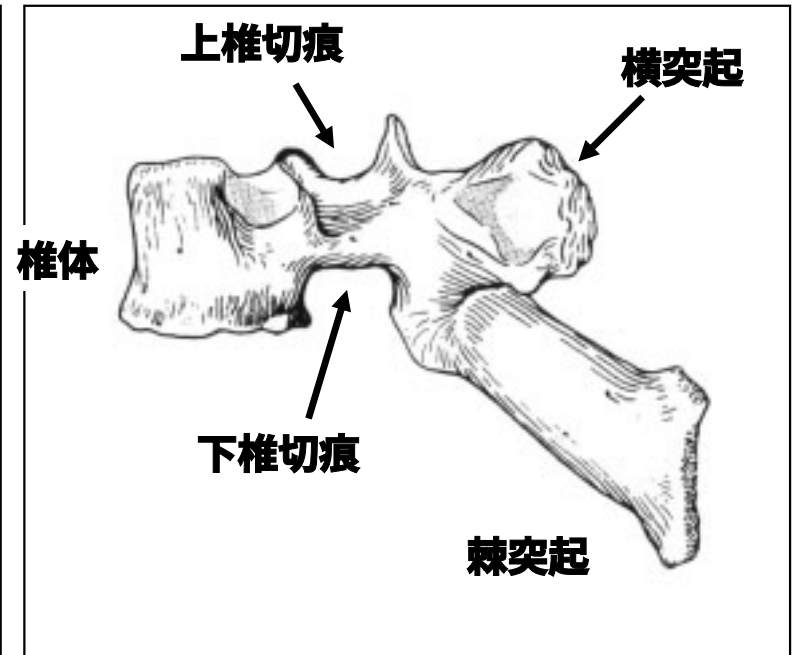
椎 骨

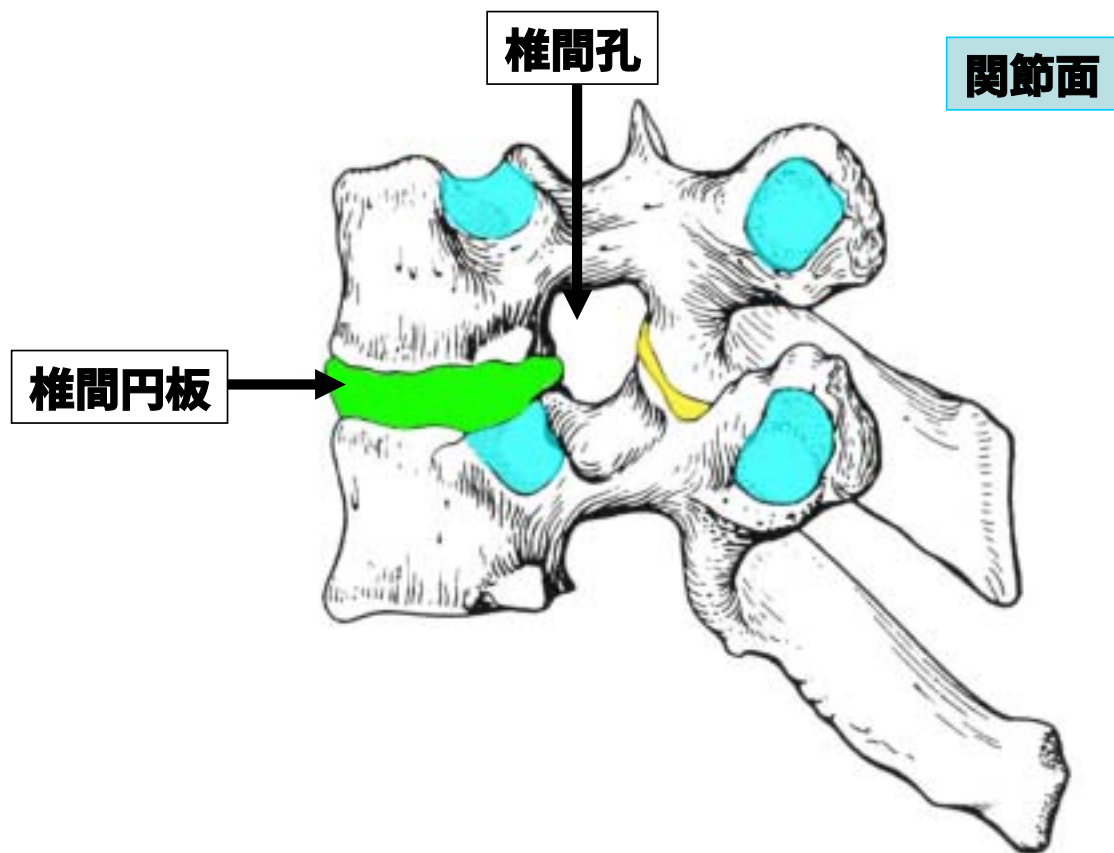
椎骨の基本構造

後

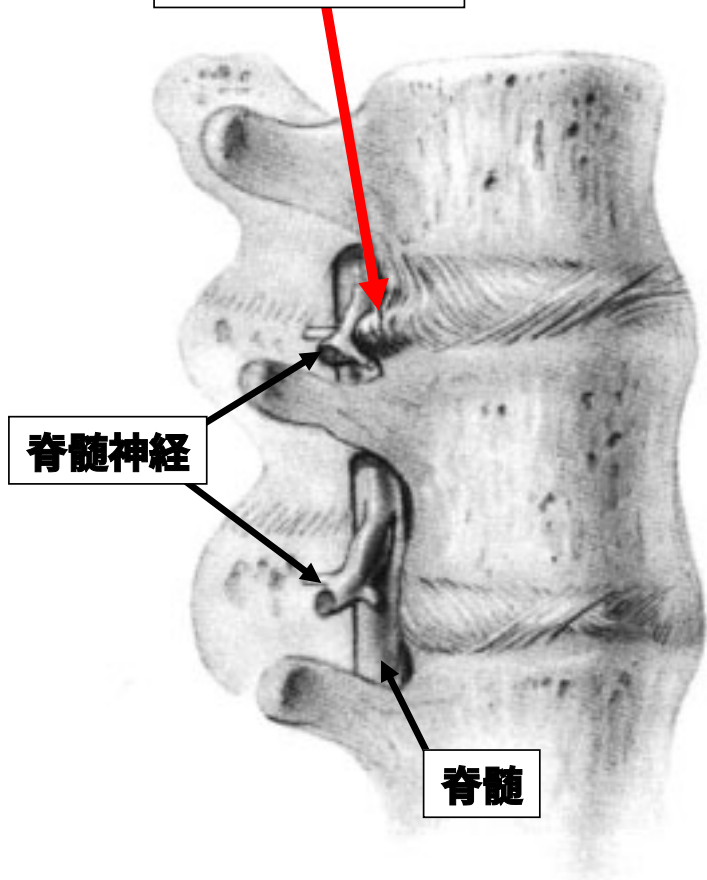


前





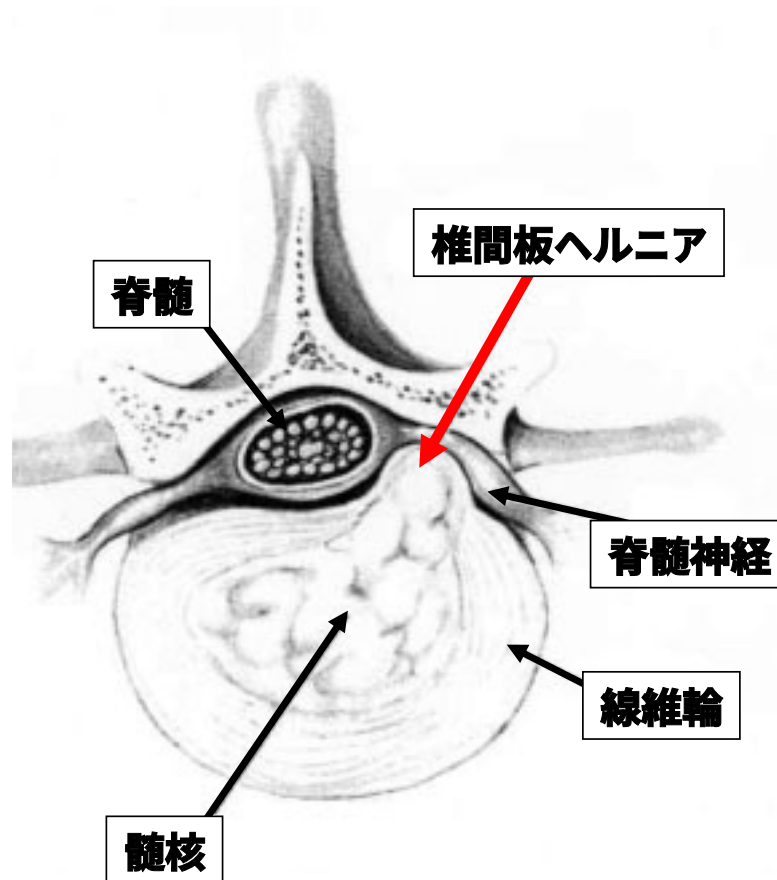
椎間板ヘルニア



脊髄神経

脊髄

椎間板ヘルニア



脊髄

脊髄神経

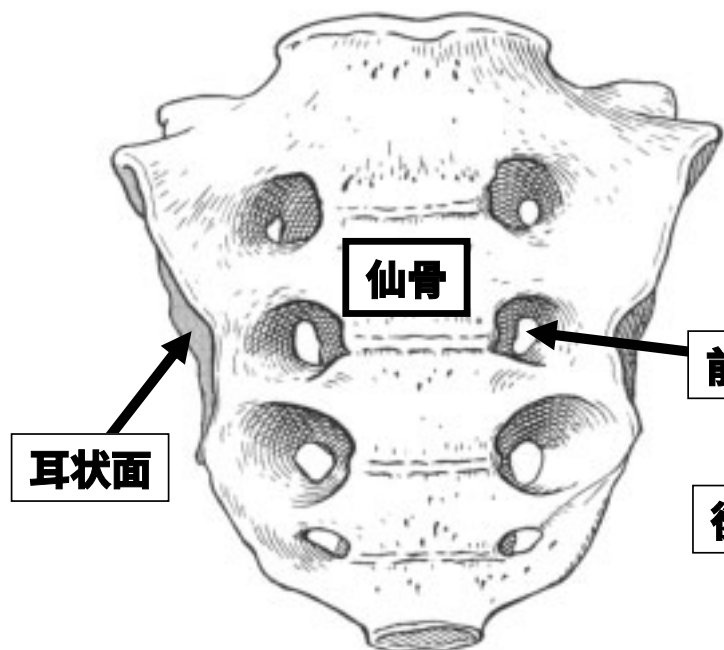
線維輪

髄核

前面

後面

仙椎
5



前仙骨孔

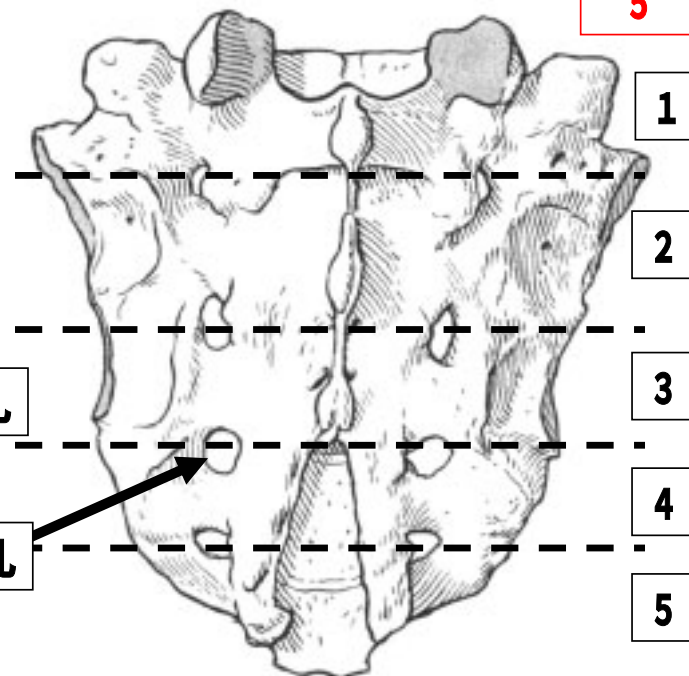
耳状面

仙骨

後仙骨孔



尾骨



1

2

3

4

5



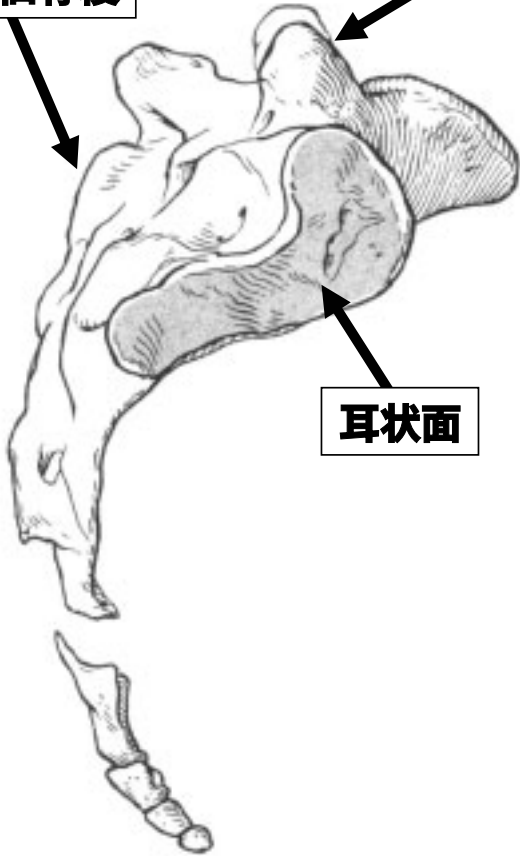
尾椎
3~5

右側面

正中仙骨稜

上関節突起

耳状面

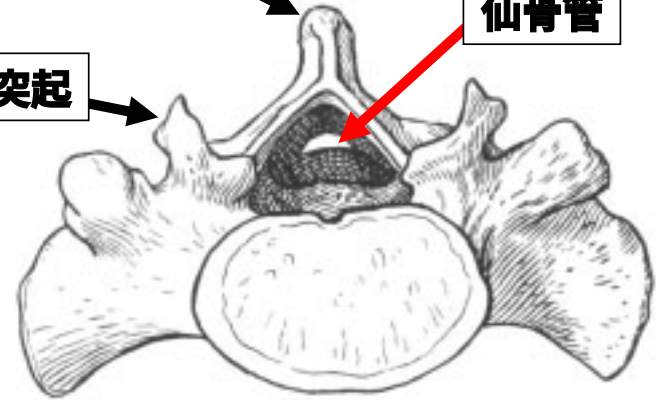


上面

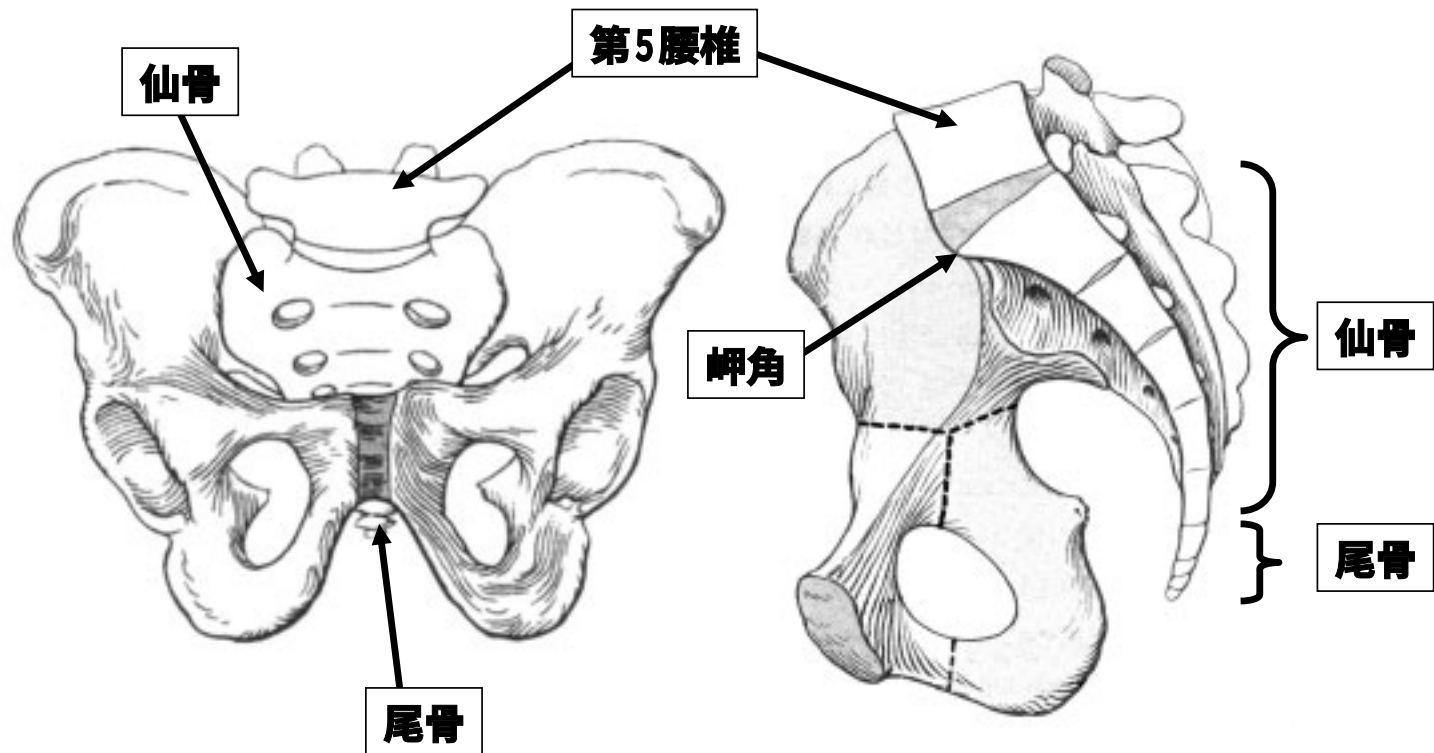
正中仙骨稜

仙骨管

上関節突起



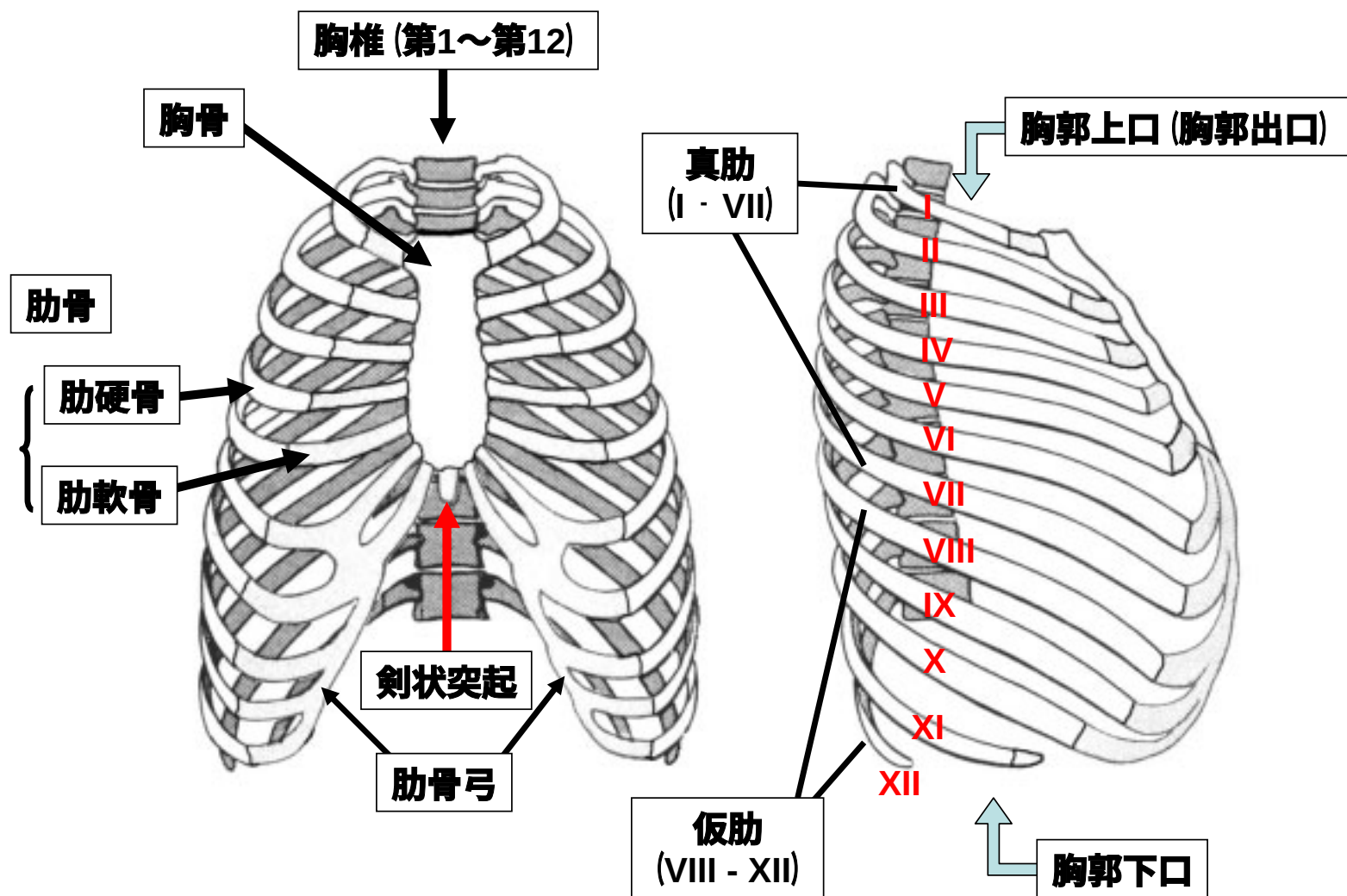
寛骨との関係 (骨盤の形成)

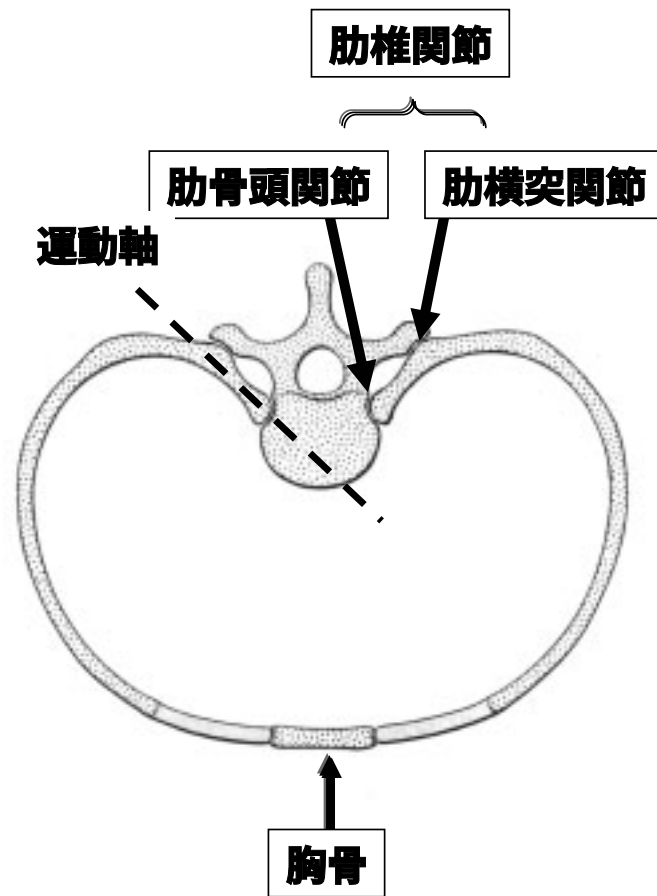
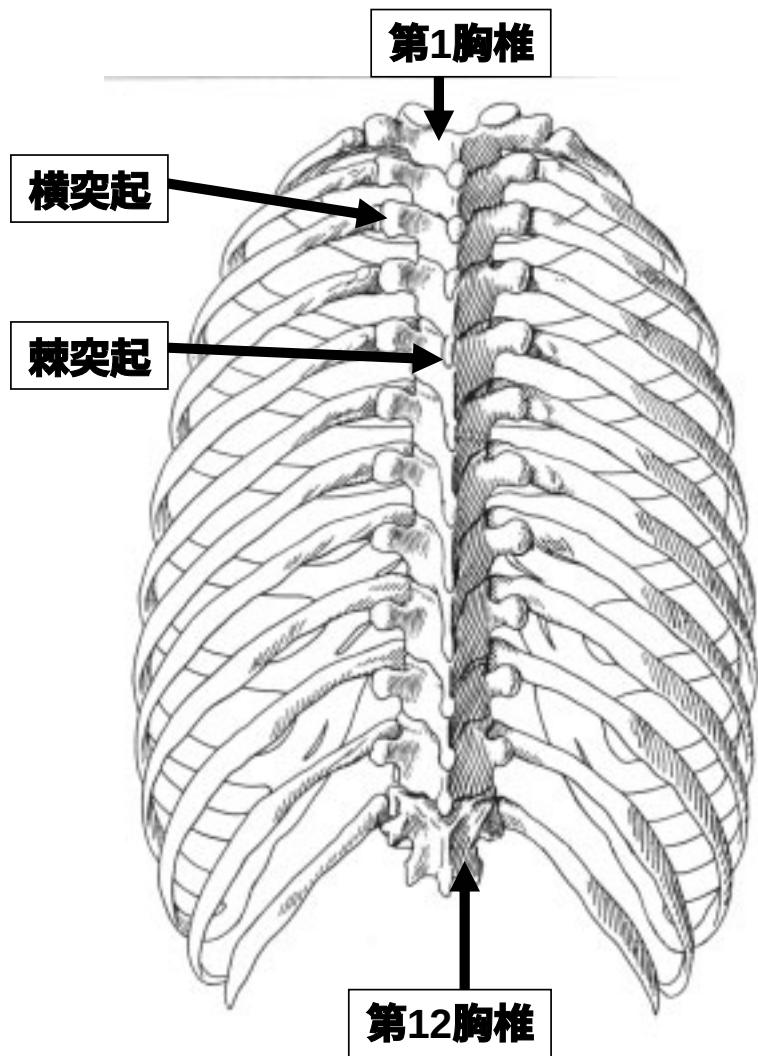


骨盤の前面より

右側半

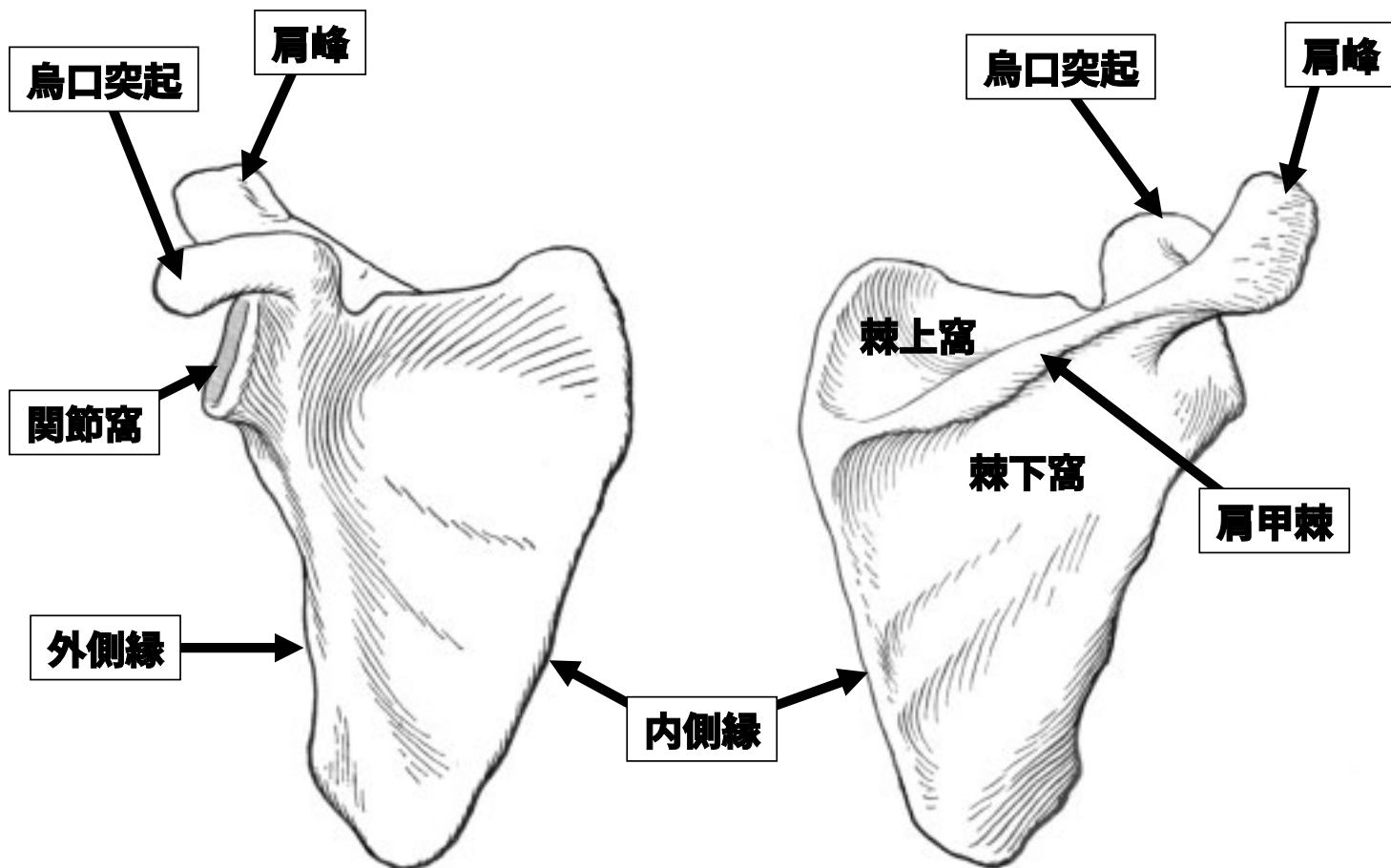
胸 郭





上肢骨

肩甲骨



上腕骨

前面

後面

上腕骨頭

大結節

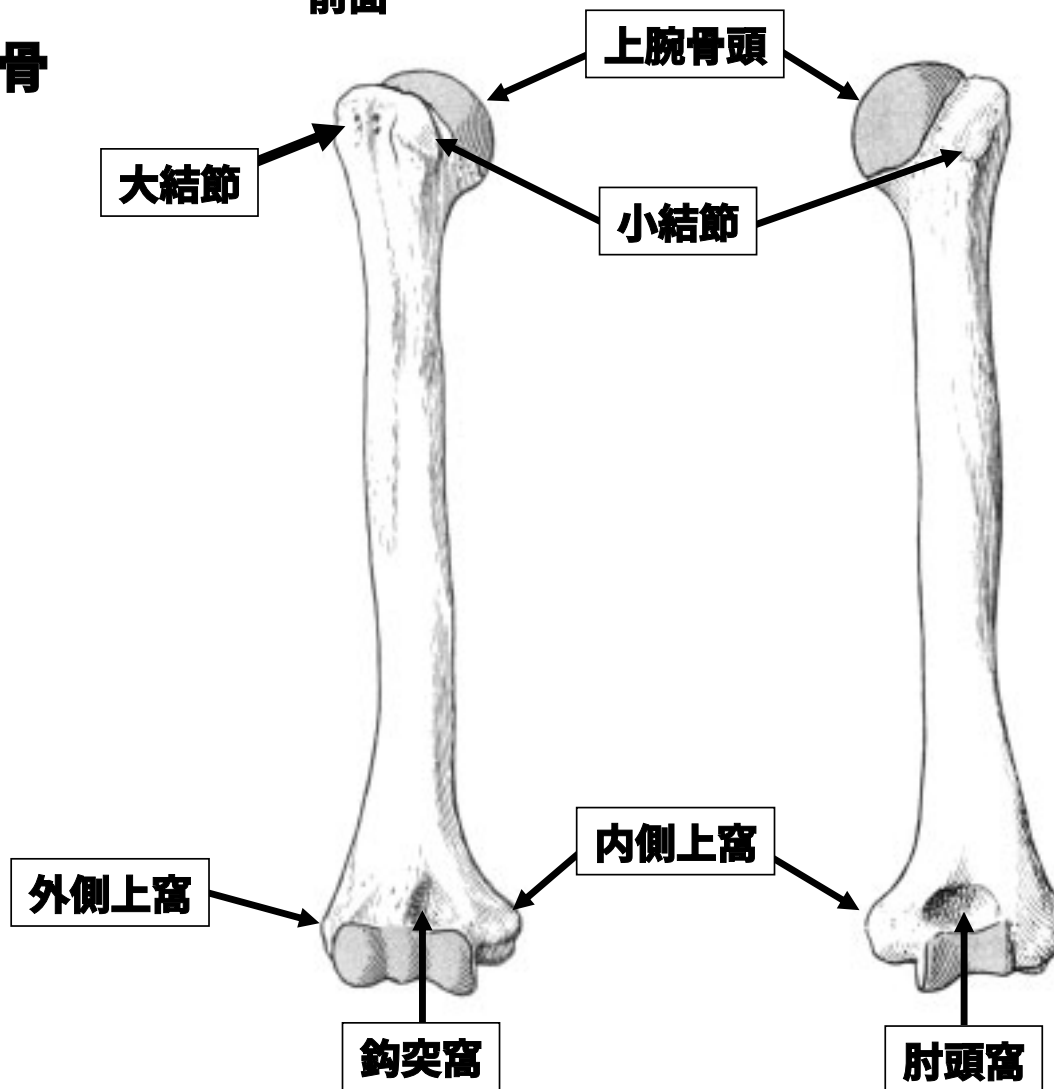
小結節

外側上窩

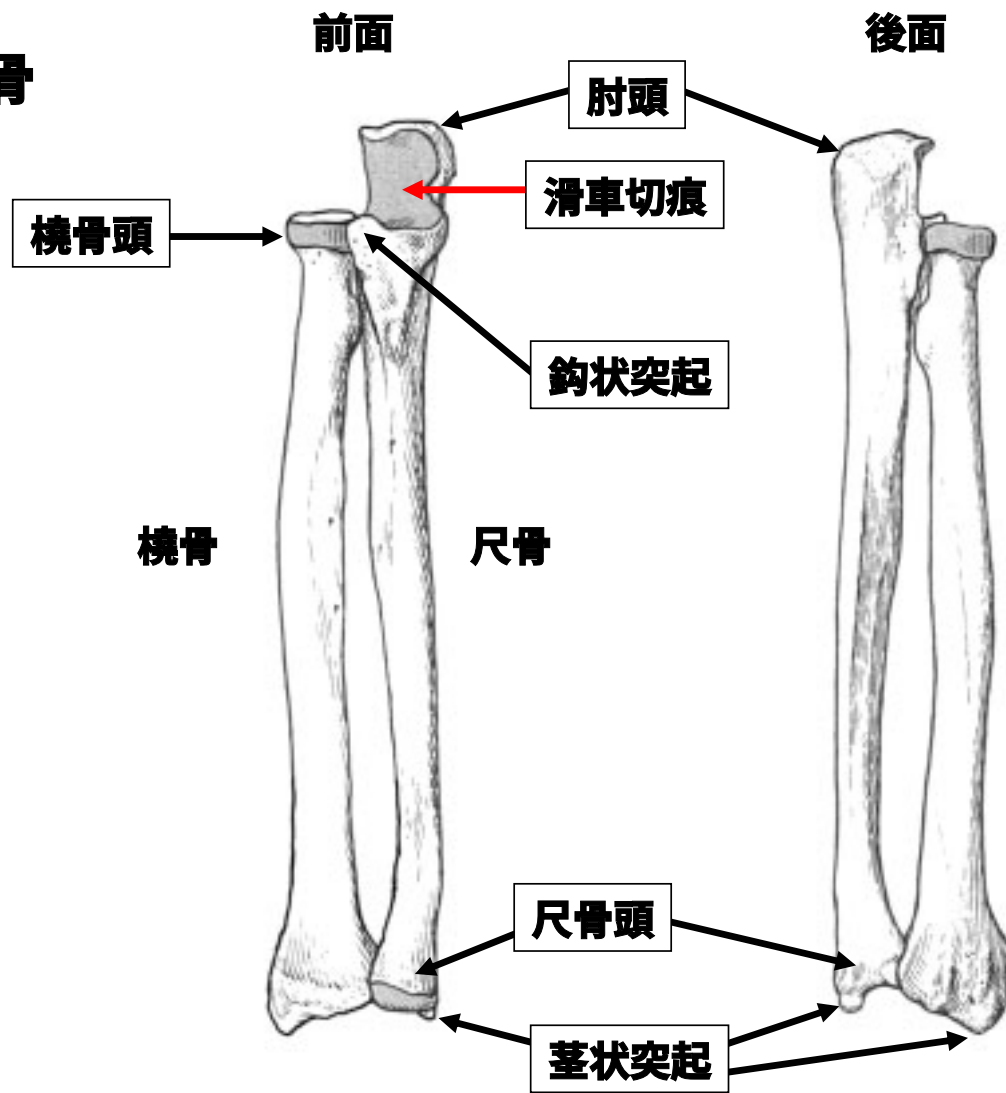
內側上窩

鈎突窩

肘頭窩

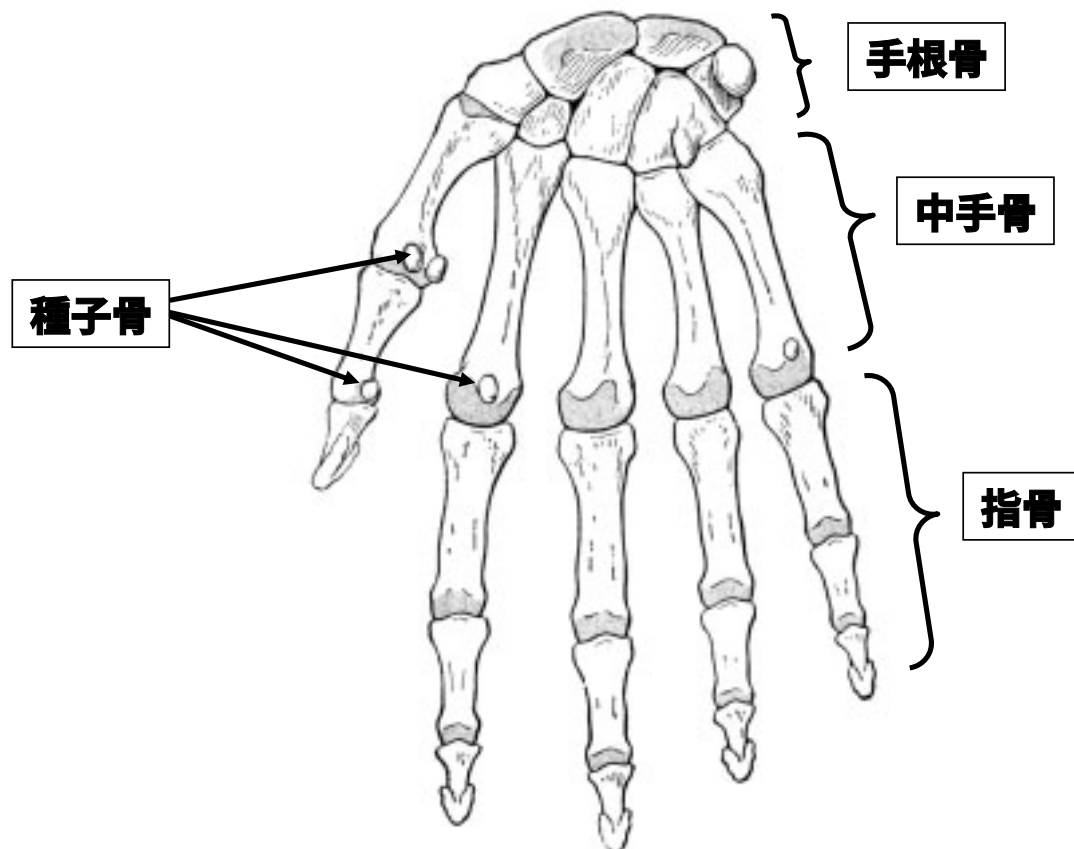


橈骨と尺骨



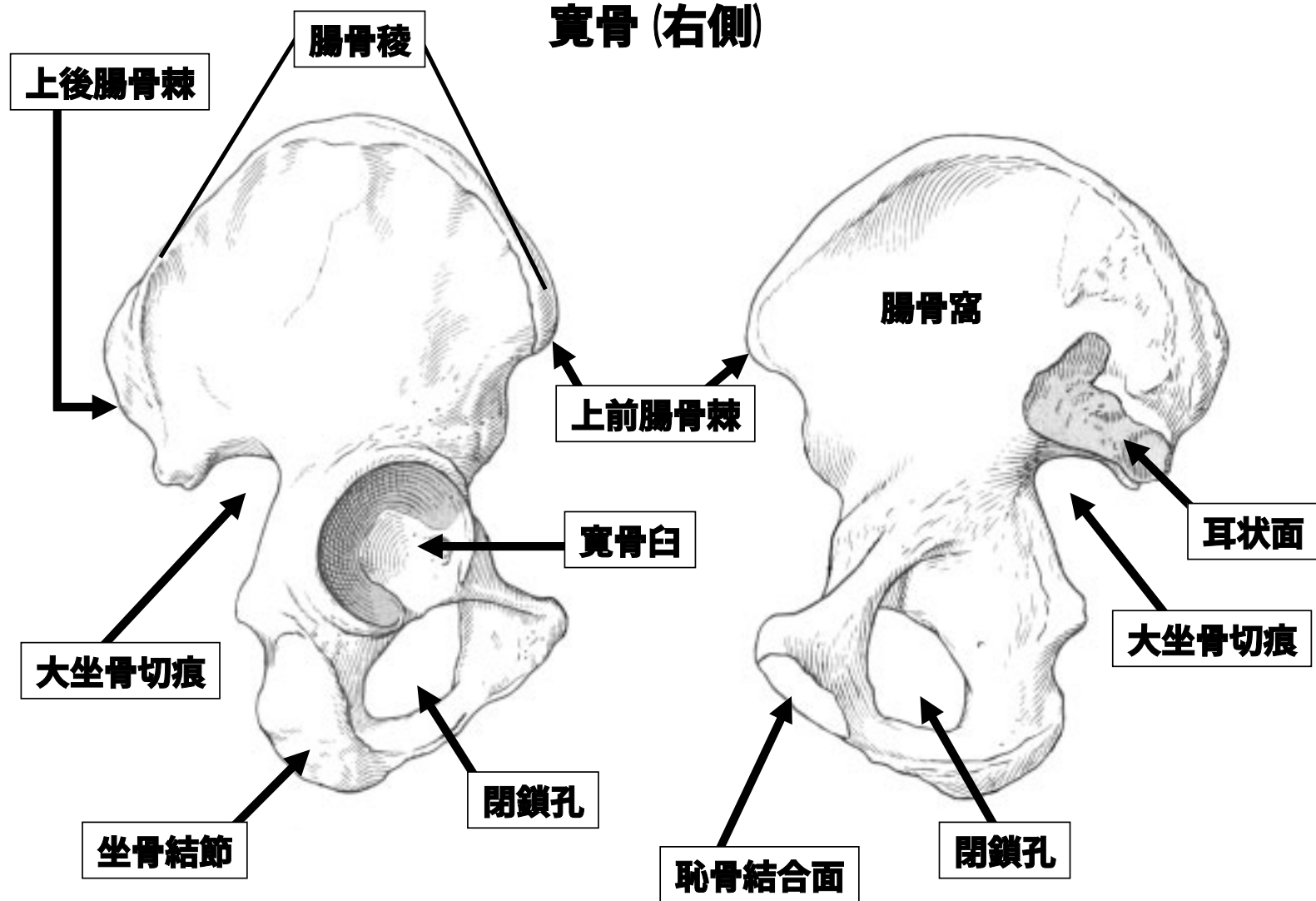
手骨 (右側)

掌側面 (前面)



下肢骨

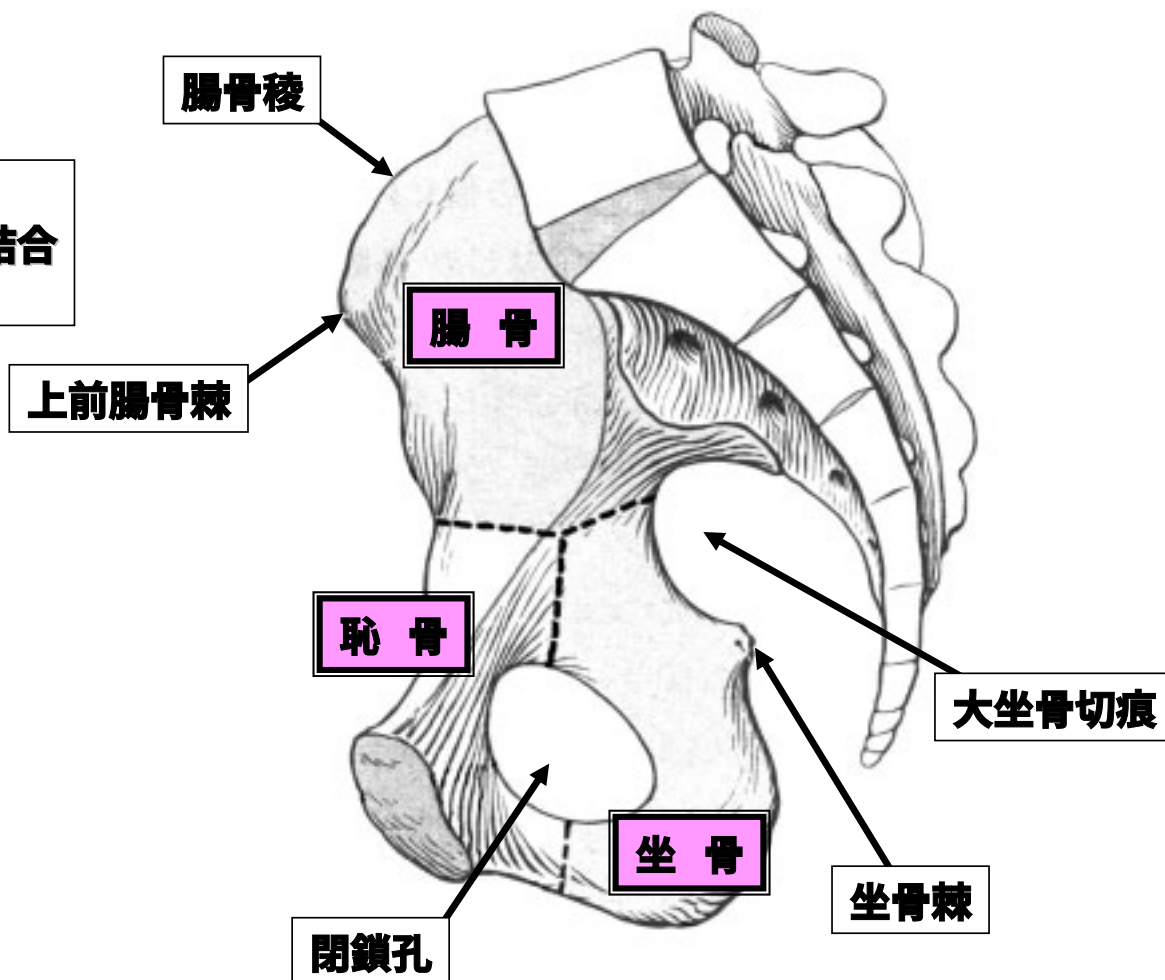
寛骨 (右側)



寛骨



腸骨 坐骨 恥骨 の 骨結合



骨 盤



左右の寛骨
仙 骨
尾 骨

仙骨

寛骨

尾骨

寛骨臼

恥骨結合



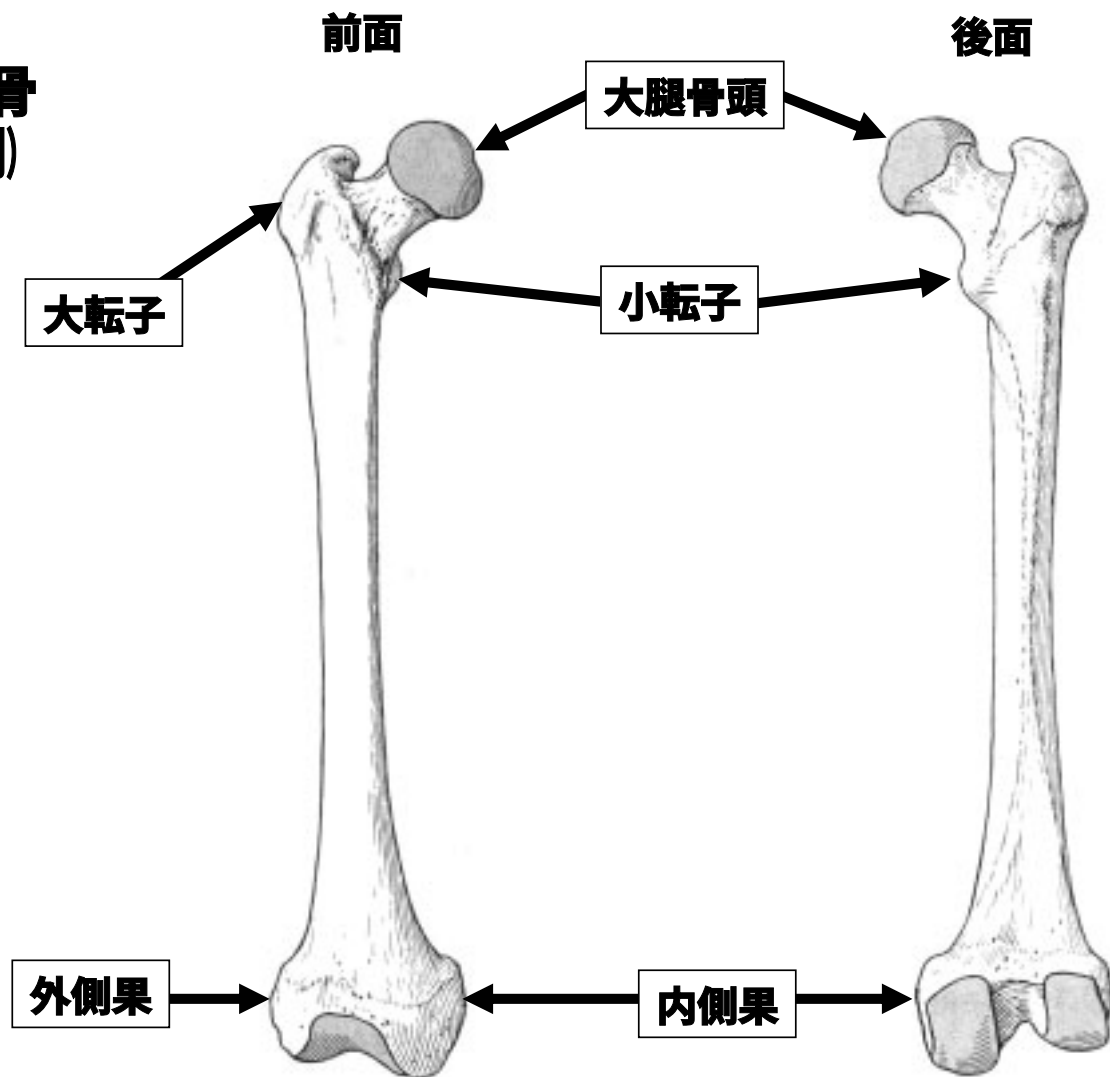
♂



♀

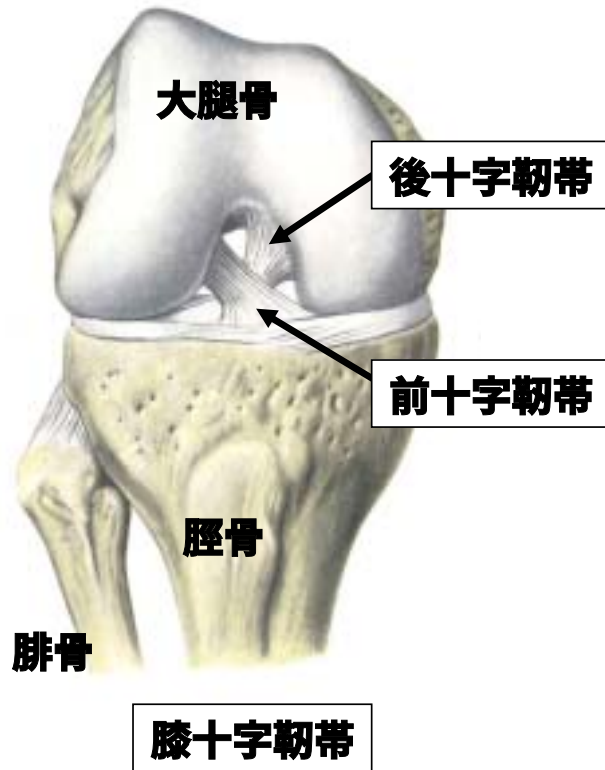


大腿骨 (右側)

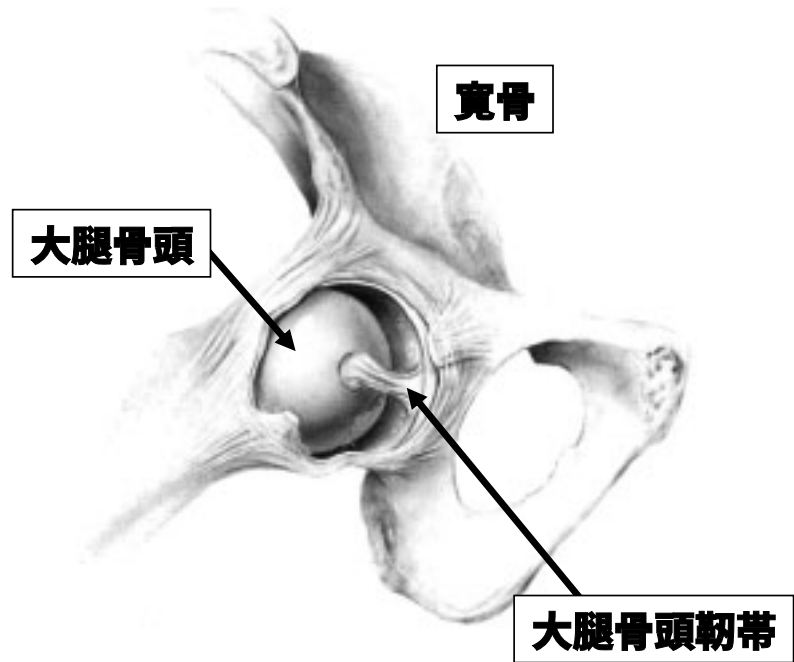


副韌帶 (關節內韌帶)

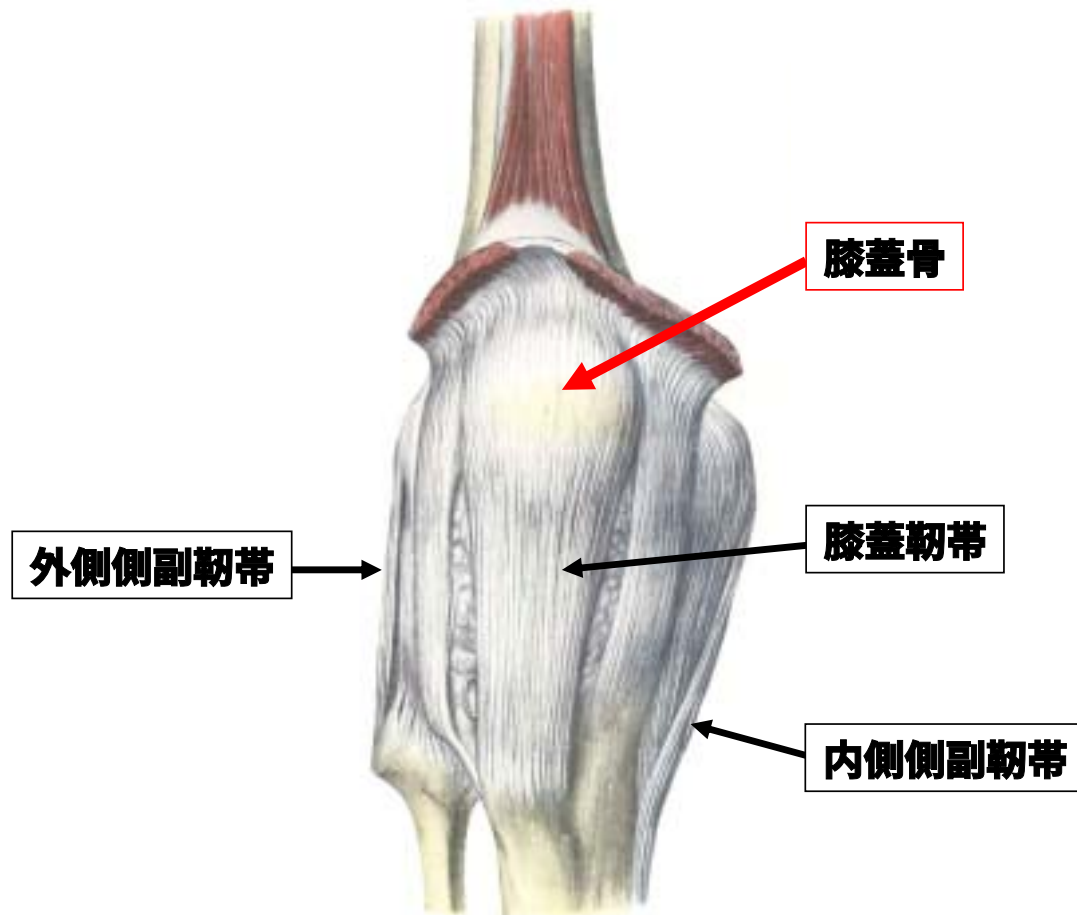
膝關節



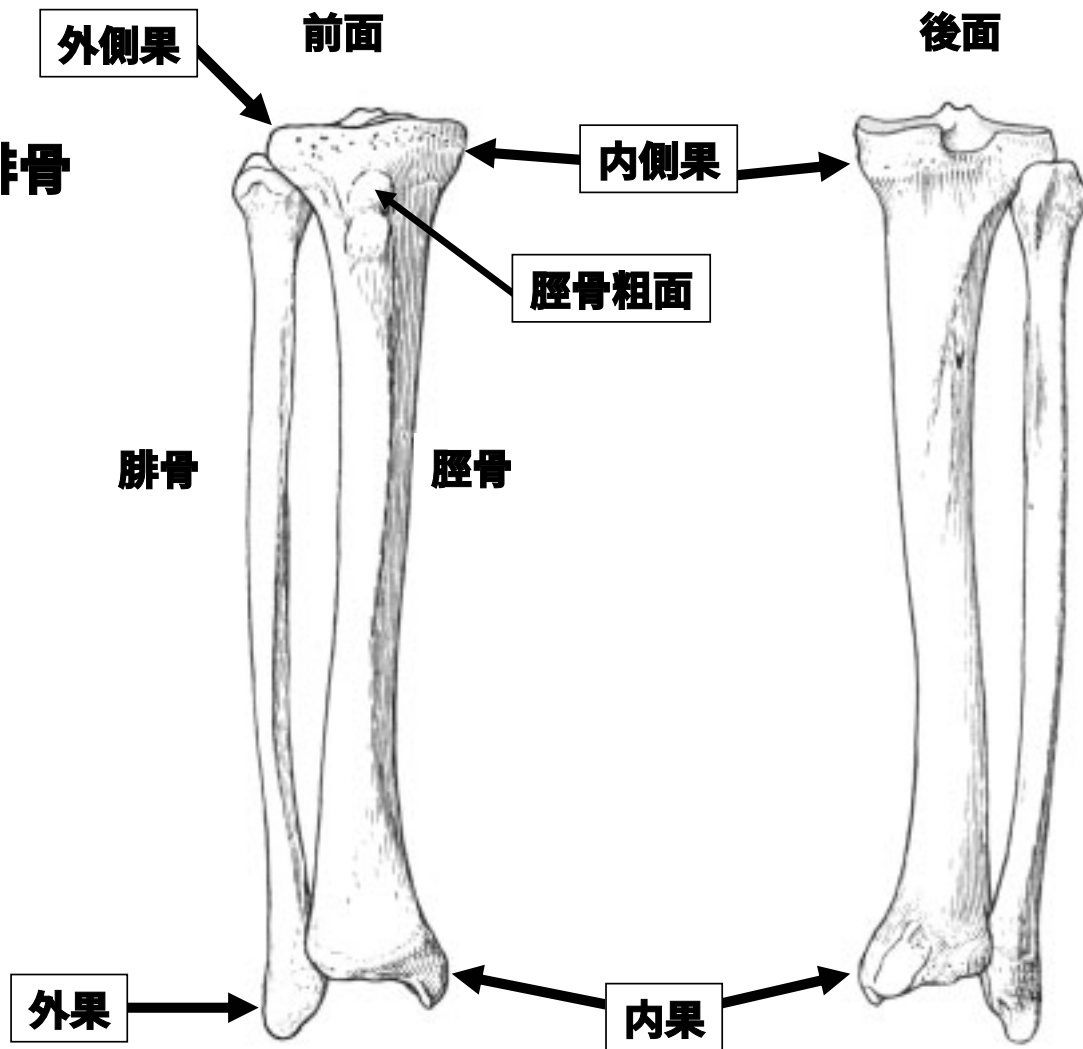
股關節



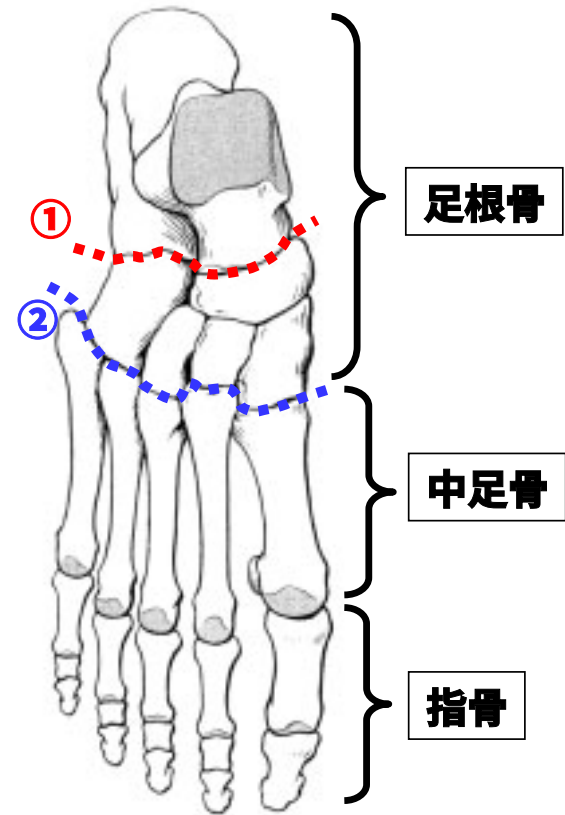
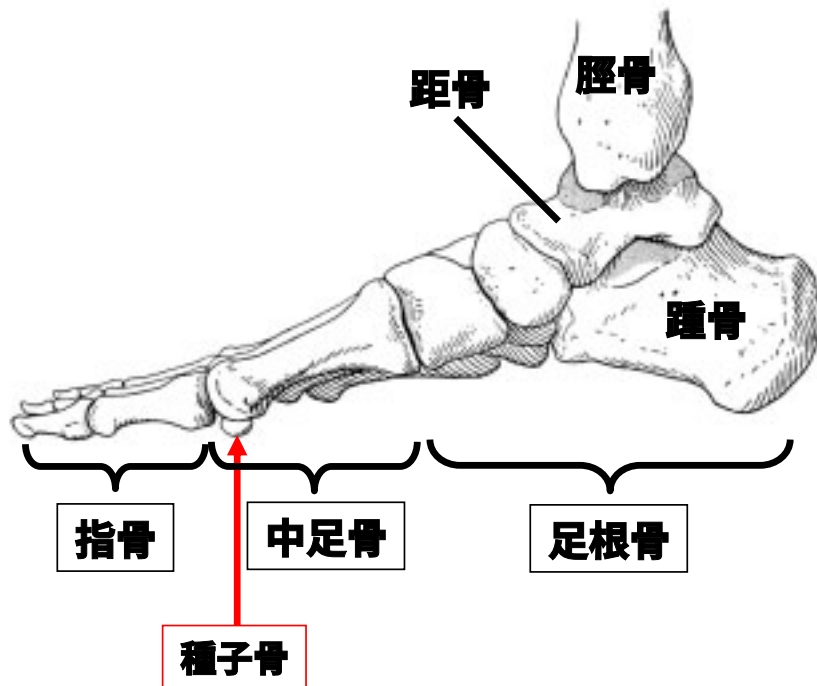
膝関節 (前方より)



脛骨と腓骨



足骨



- ① ショパール関節 (横足根関節)
- ② リスフラン関節 (足根中足関節)

踵骨腱 (アキレス腱)

下腿三頭筋

