

# Posterior Skull Base

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Director Fellowship Program, Associate Section Chief

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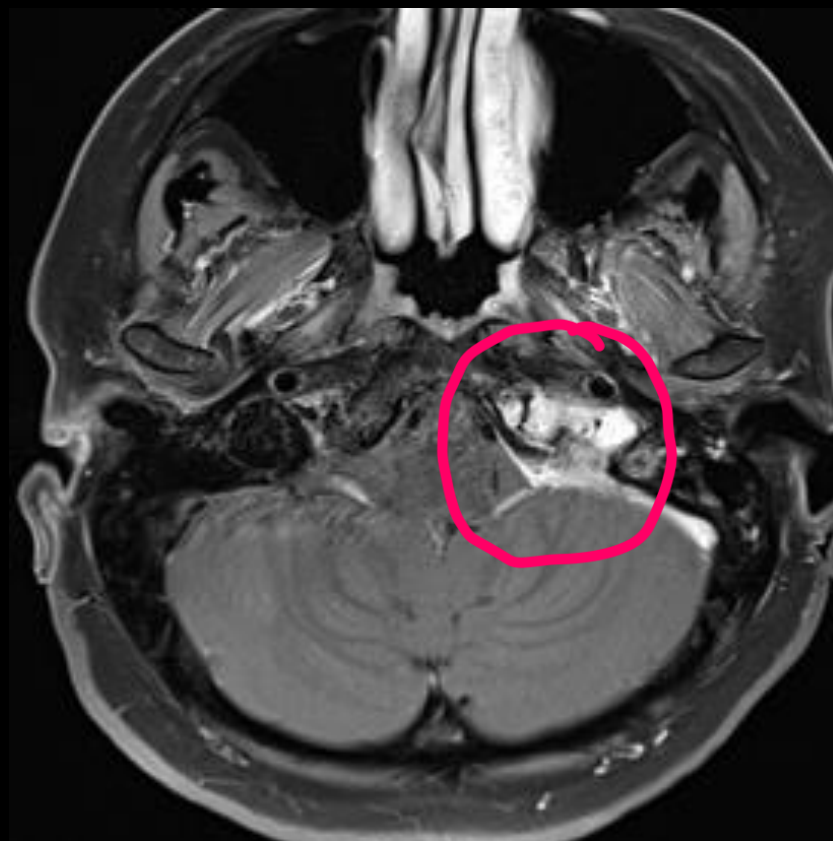
Medical College of Wisconsin, Milwaukee, WI



American College  
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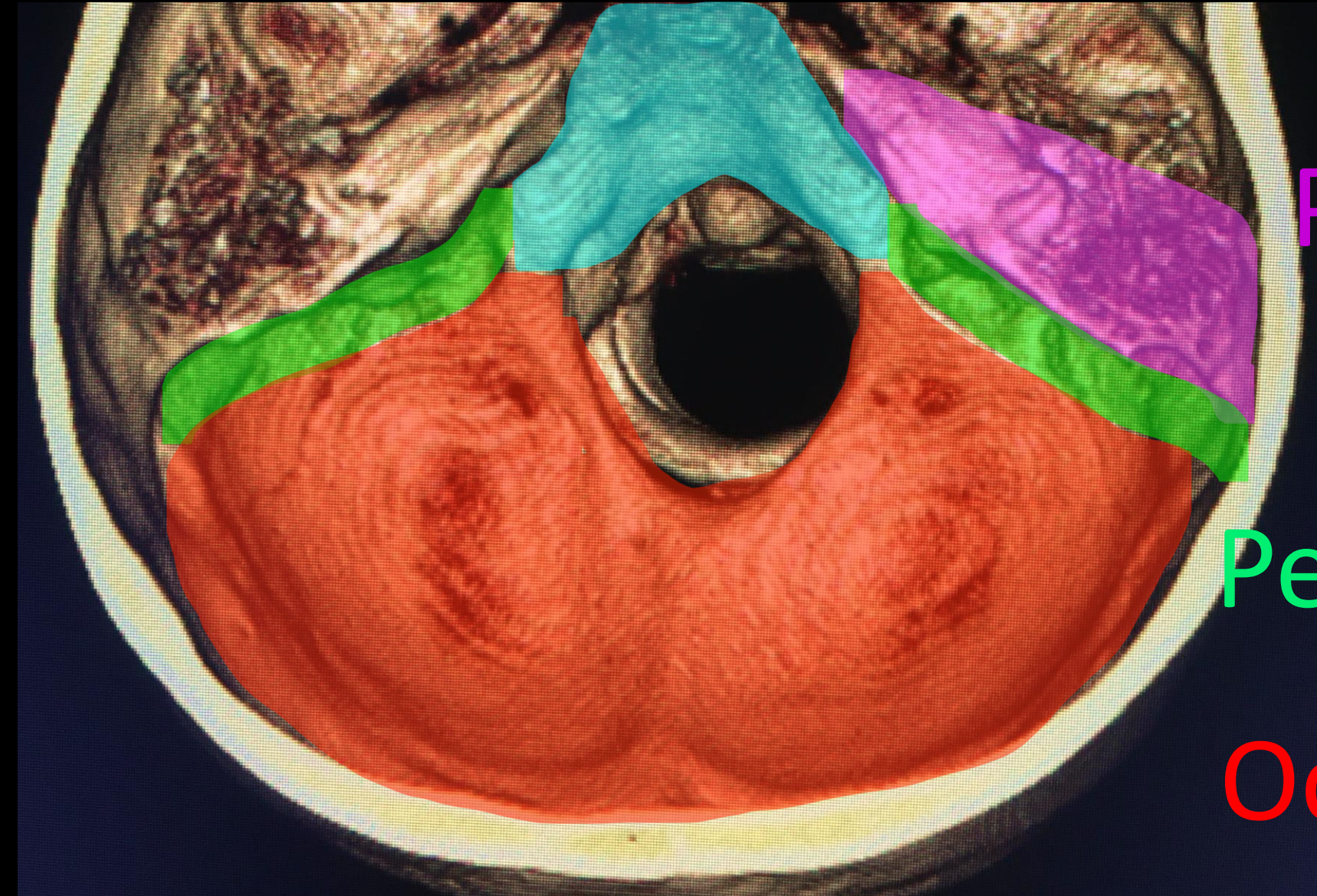
What canal is that?

Internal carotid canal

Normal or abnormal?

# Objectives

- Review the anatomy of posterior skull base
- Review common pathologies

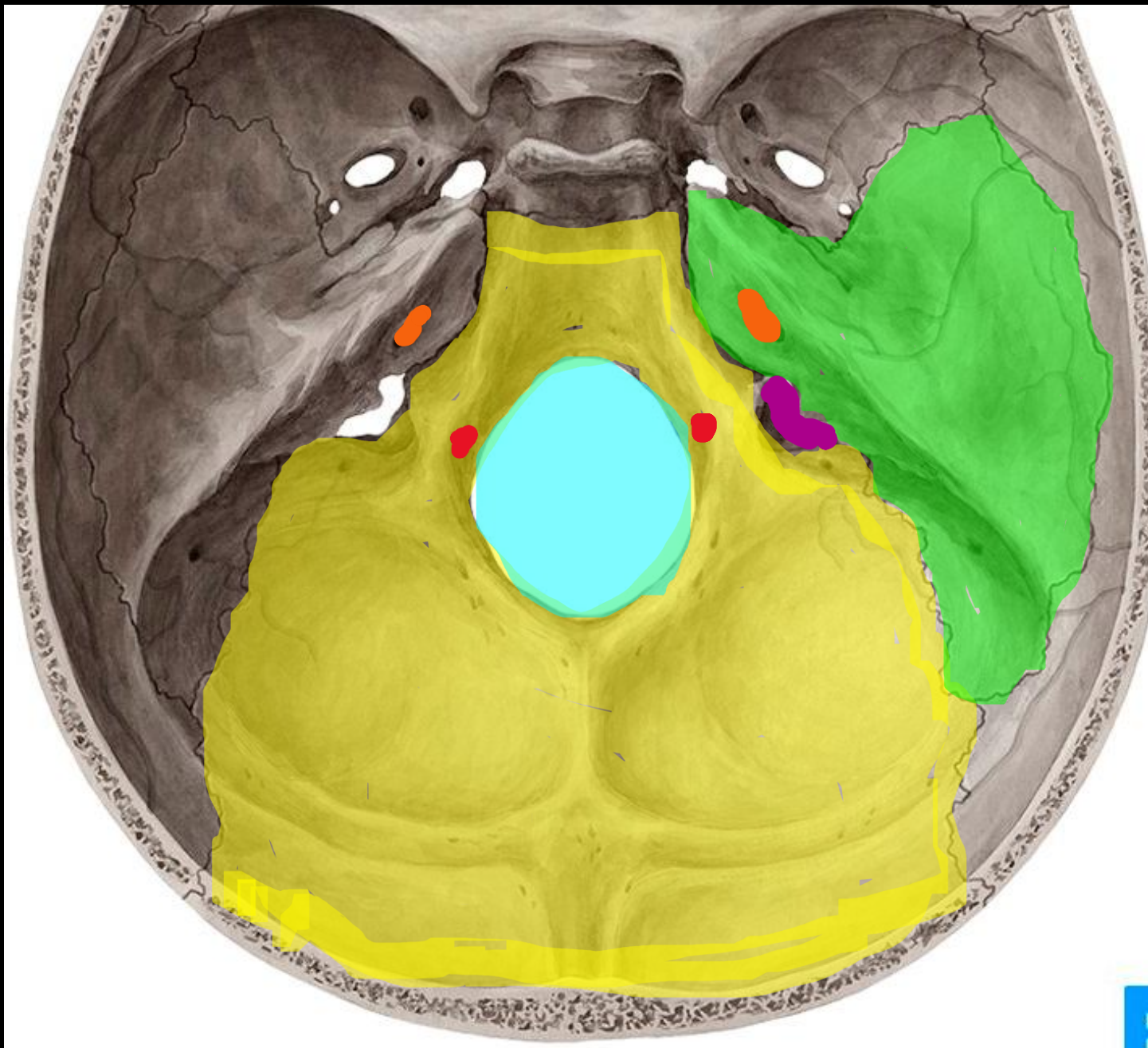


Petrous ridge

Clivus

Petrous T bone

Occipital bone



Occipital bone

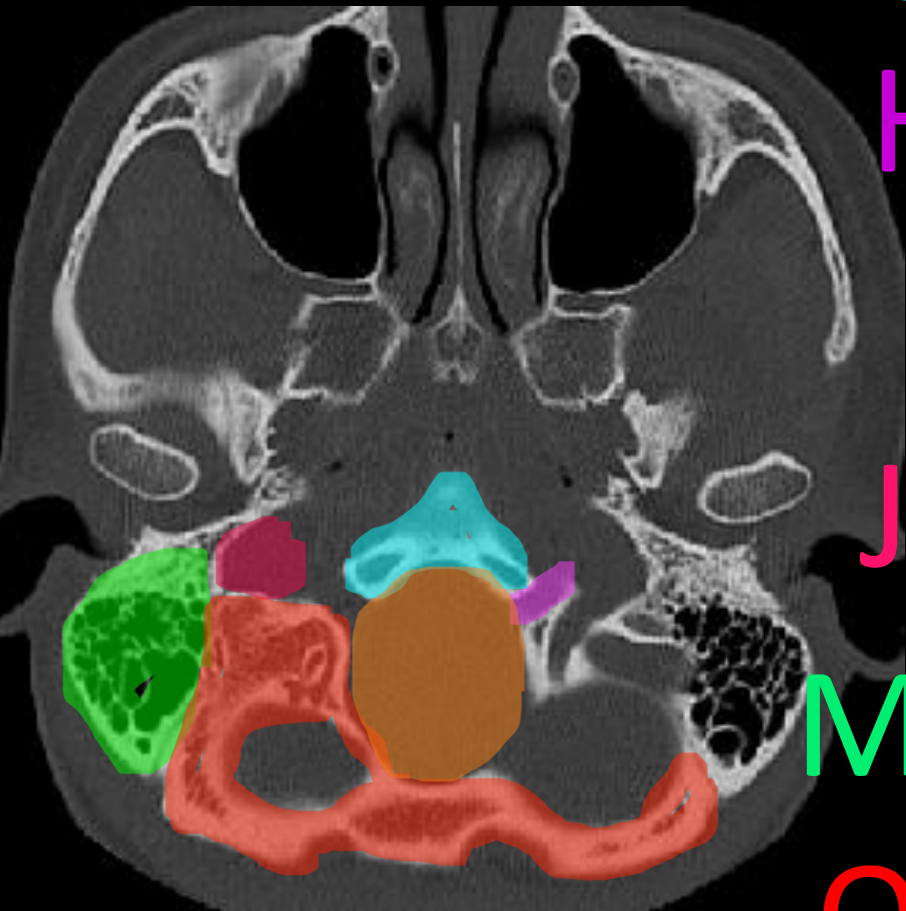
Temporal bone

Jugular foramen

IAC

Hypoglossal canal

Foramen magnum



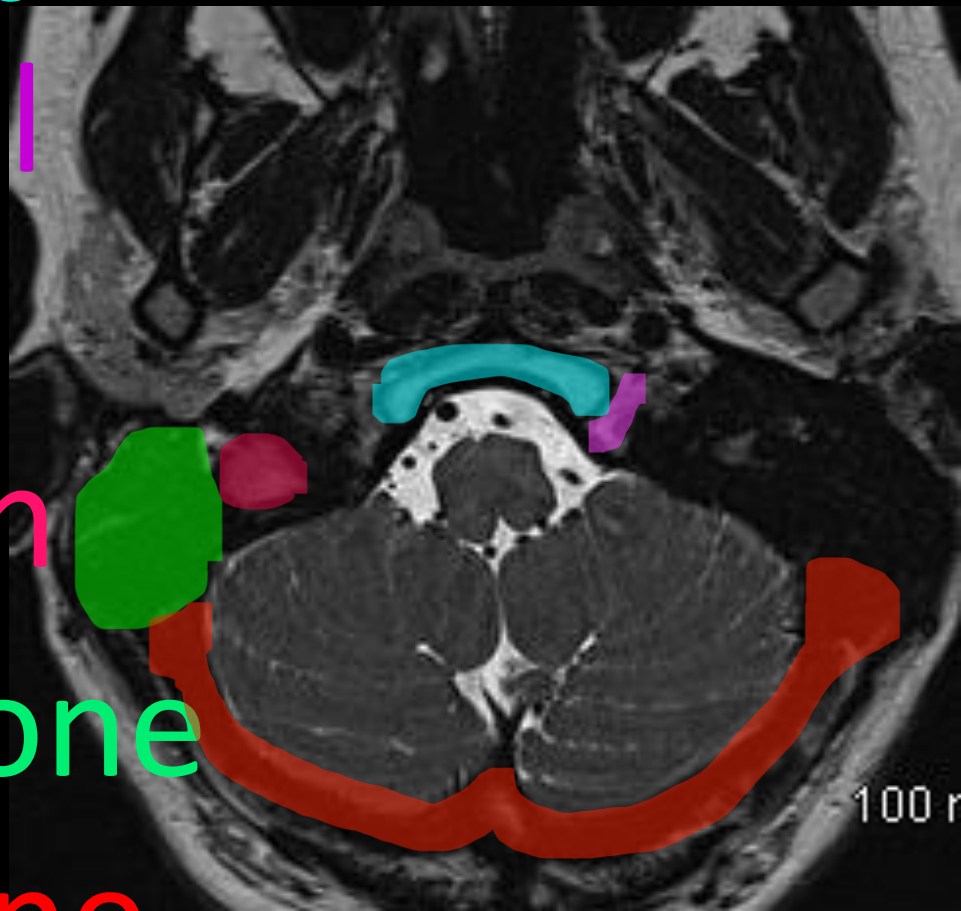
Basiocciput  
Hypoglossal  
canal

Jug foramen

Mastoid T bone

Occipital bone

Foramen magnum



Clivus/basiocciput  
Petro-occ. synchondrosis

Jugular spine

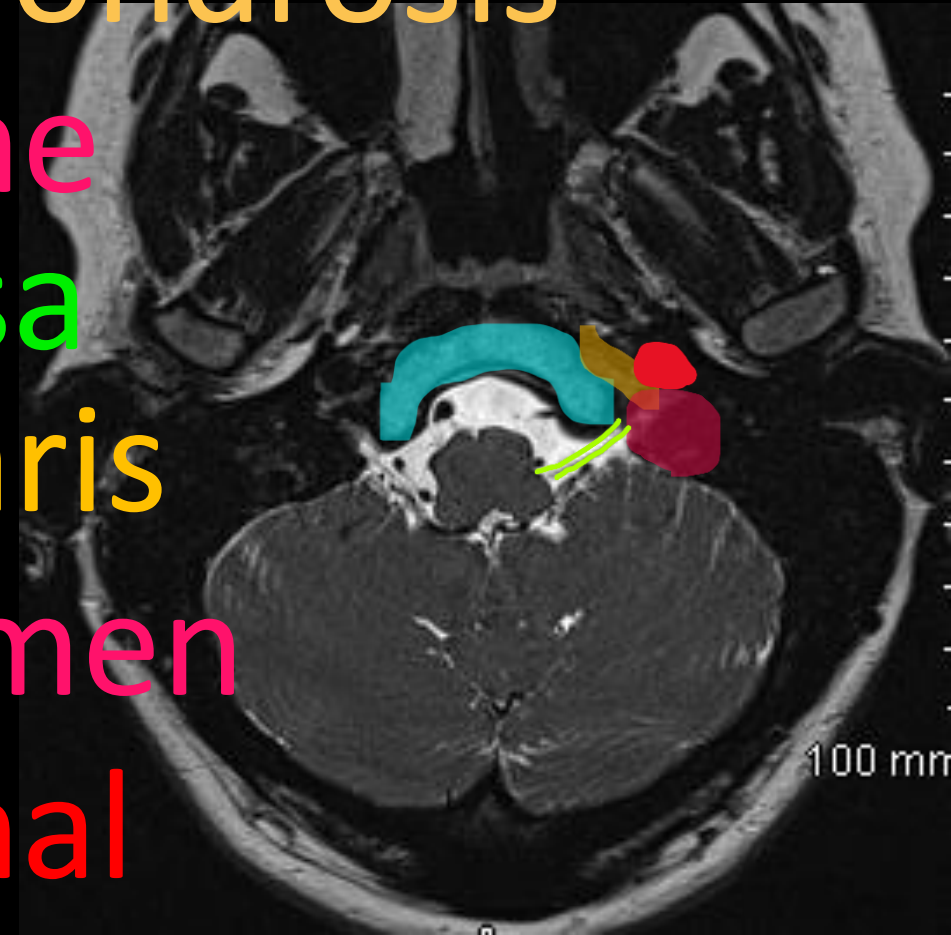
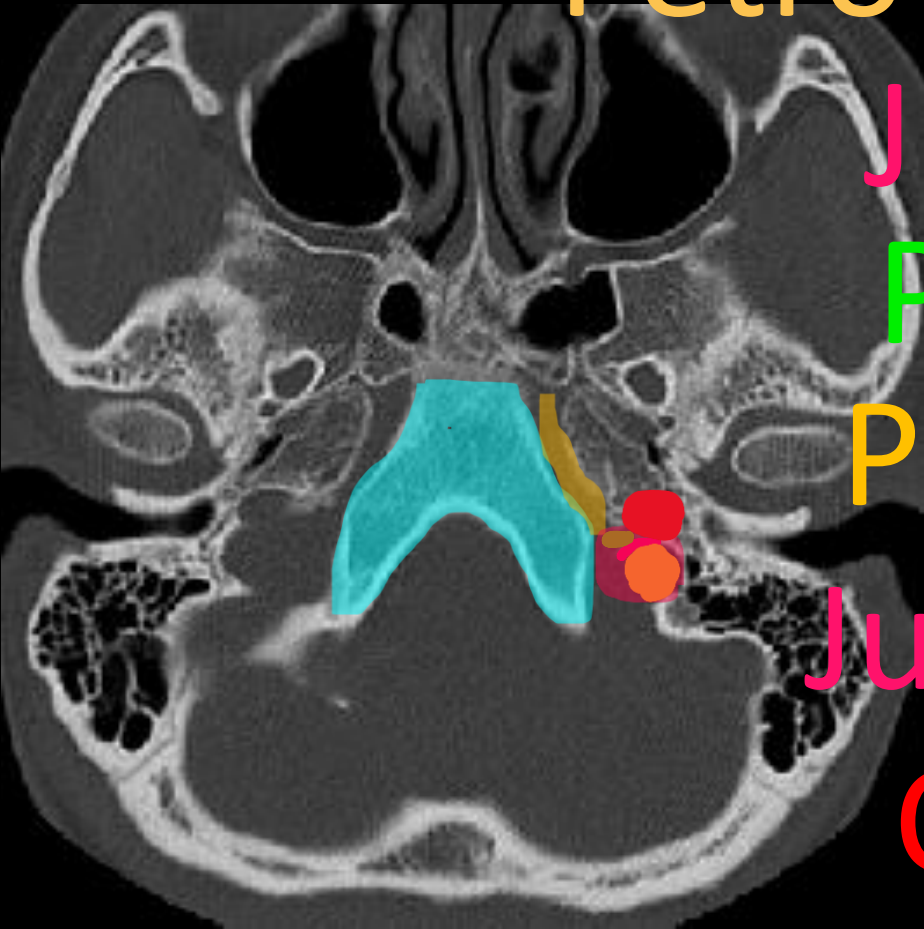
Pars nervosa

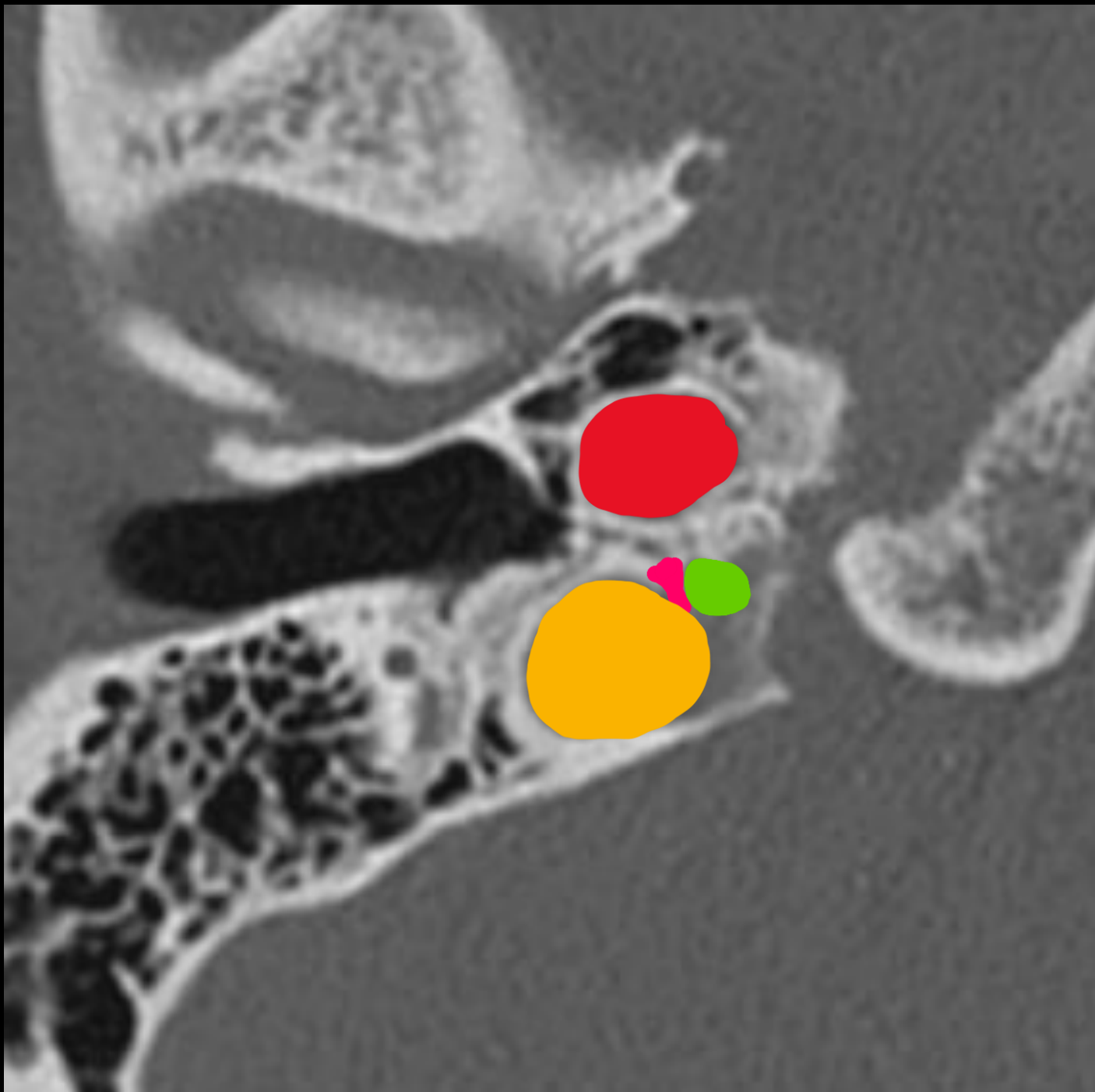
Pars vascularis

Jugular foramen

Carotid canal

CN IX, X





Jugular spine  
Pars nervosa  
(IX)

Pars vascularis  
(IJV, X, XI)

Carotid canal  
(ICA)

Basiocciput  
Basisphenoid

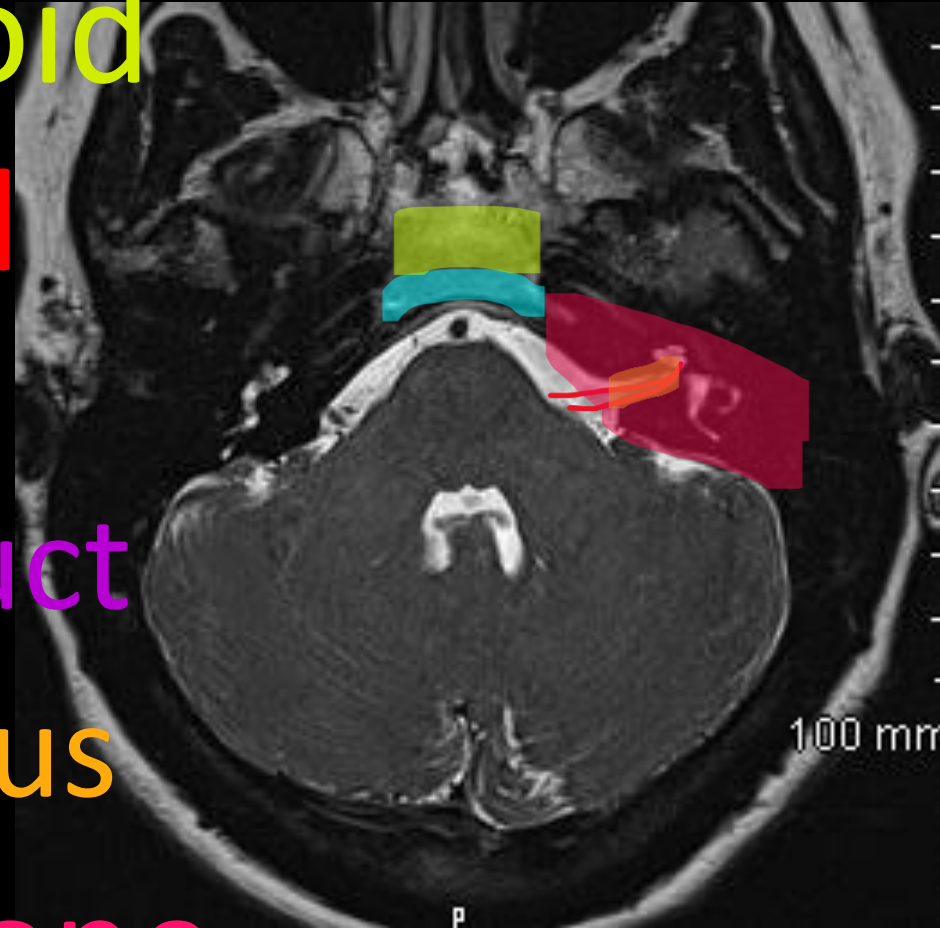
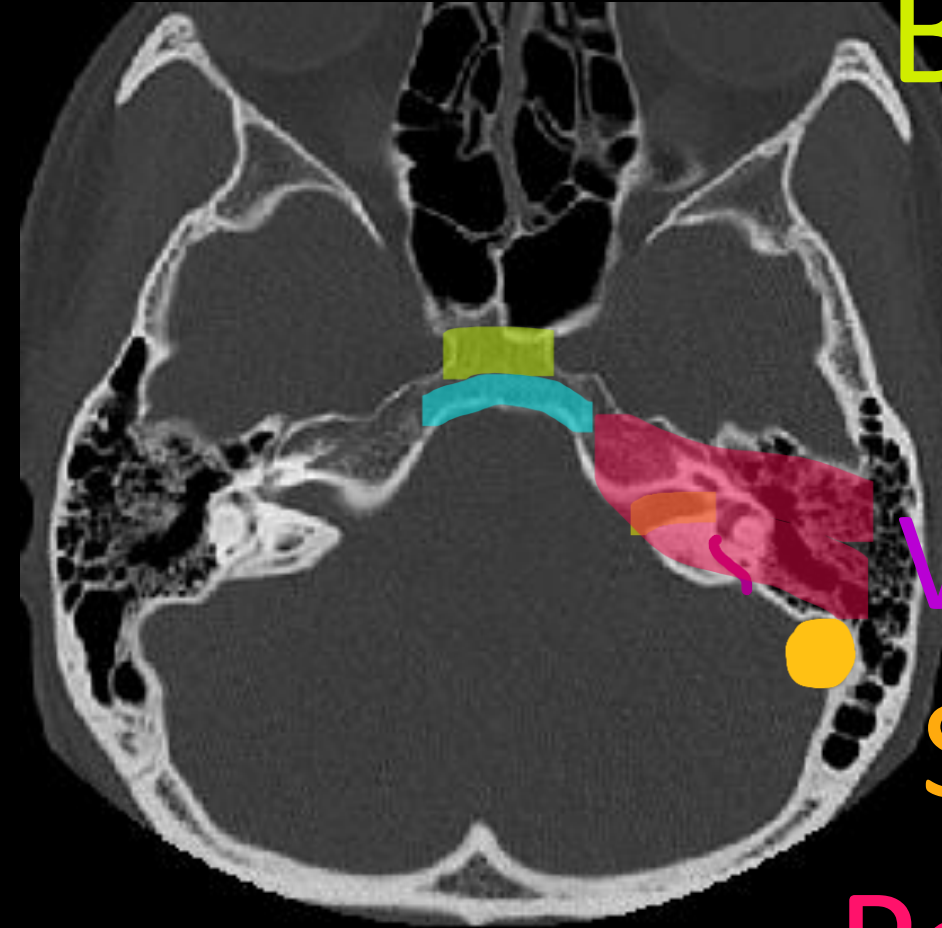
CN VII, VIII

IAC

Vest aqueduct

Sigmoid sinus

Petrous T bone



Jugular tubercle

Occ condyle

Hypoglossal  
canal

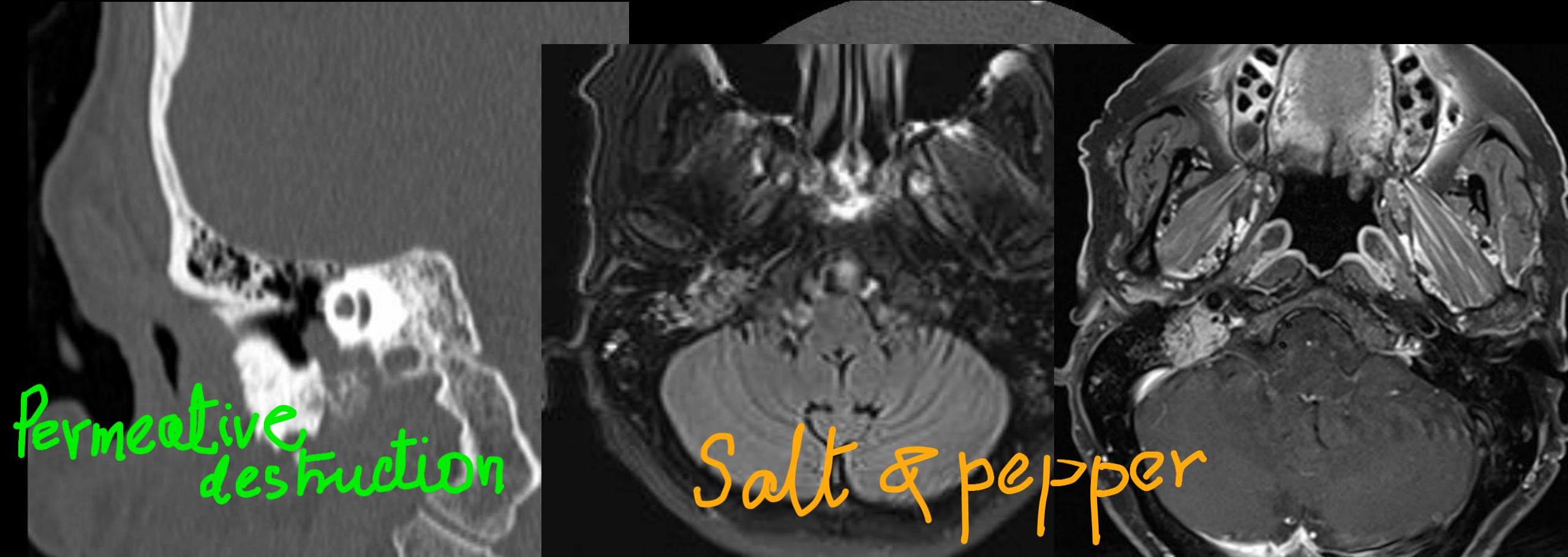
Jugular fossa



# Objectives

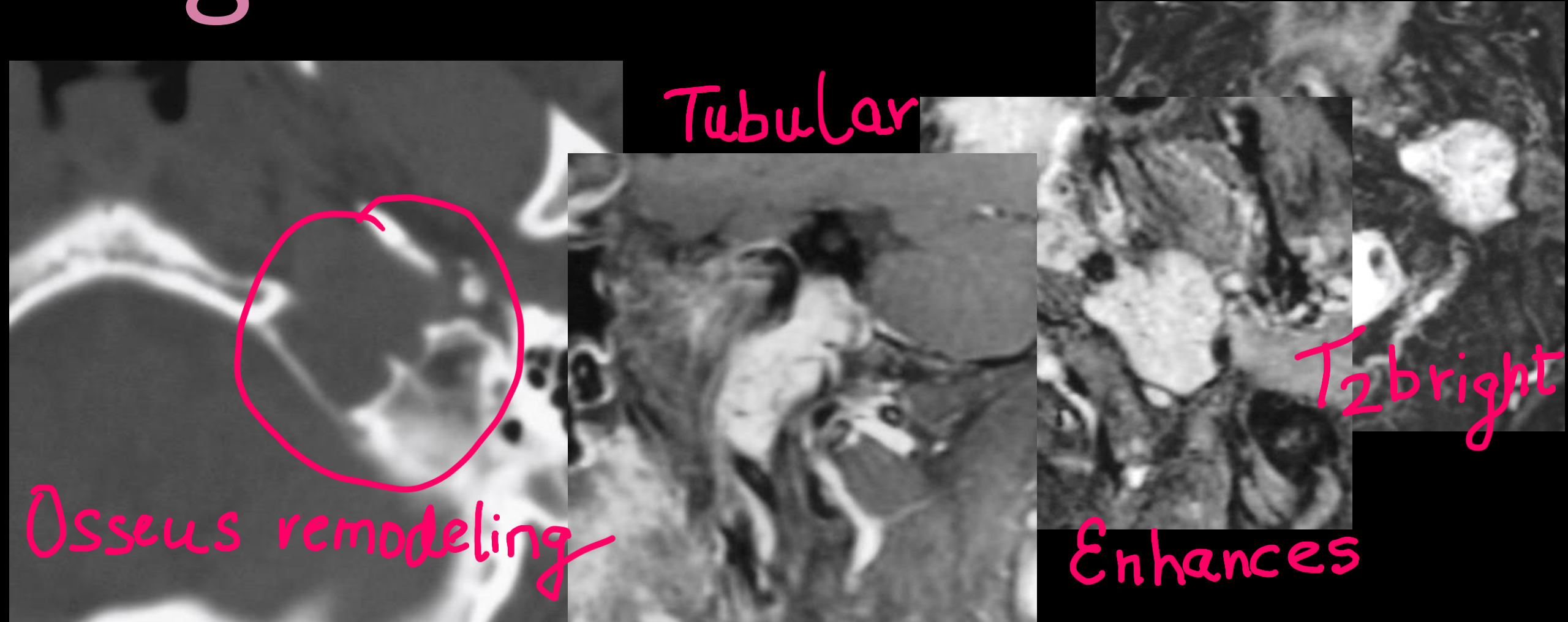
- Review the anatomy of posterior skull base
- Review common pathologies

# Jugular foramen lesions



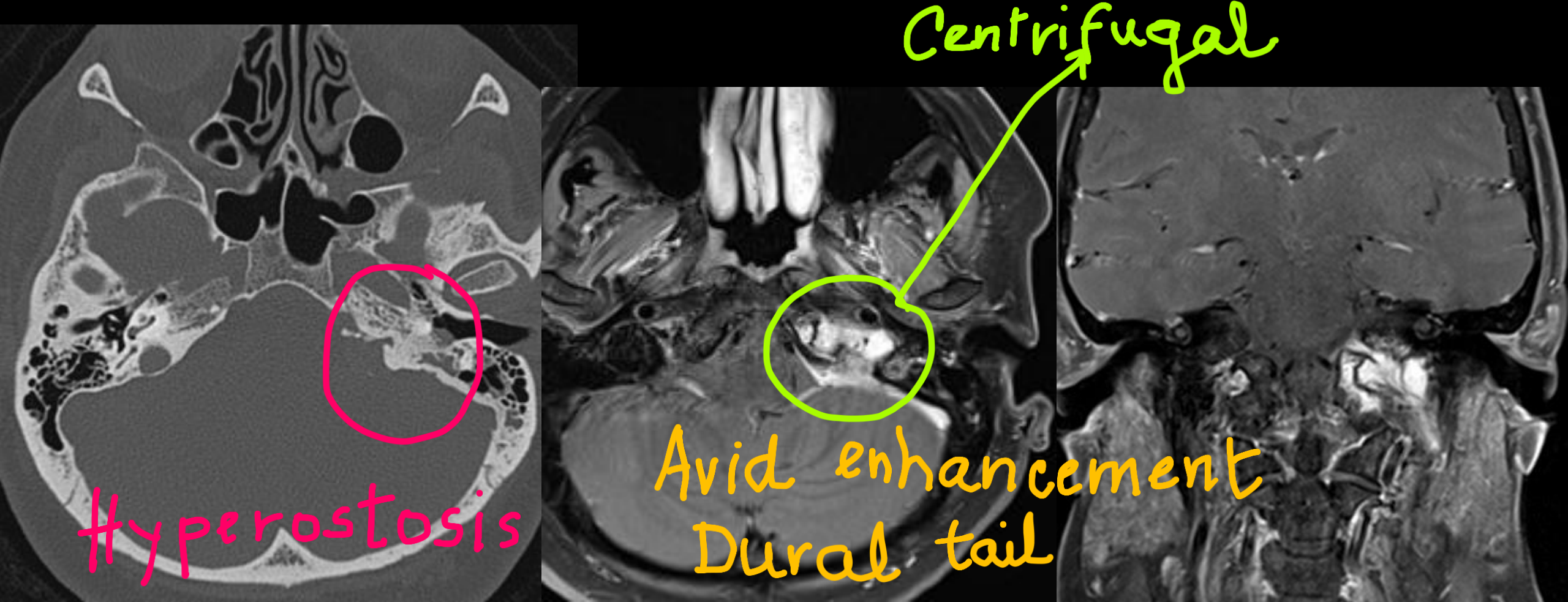
Jugulotympanic Paraganglioma

# Jugular foramen lesions

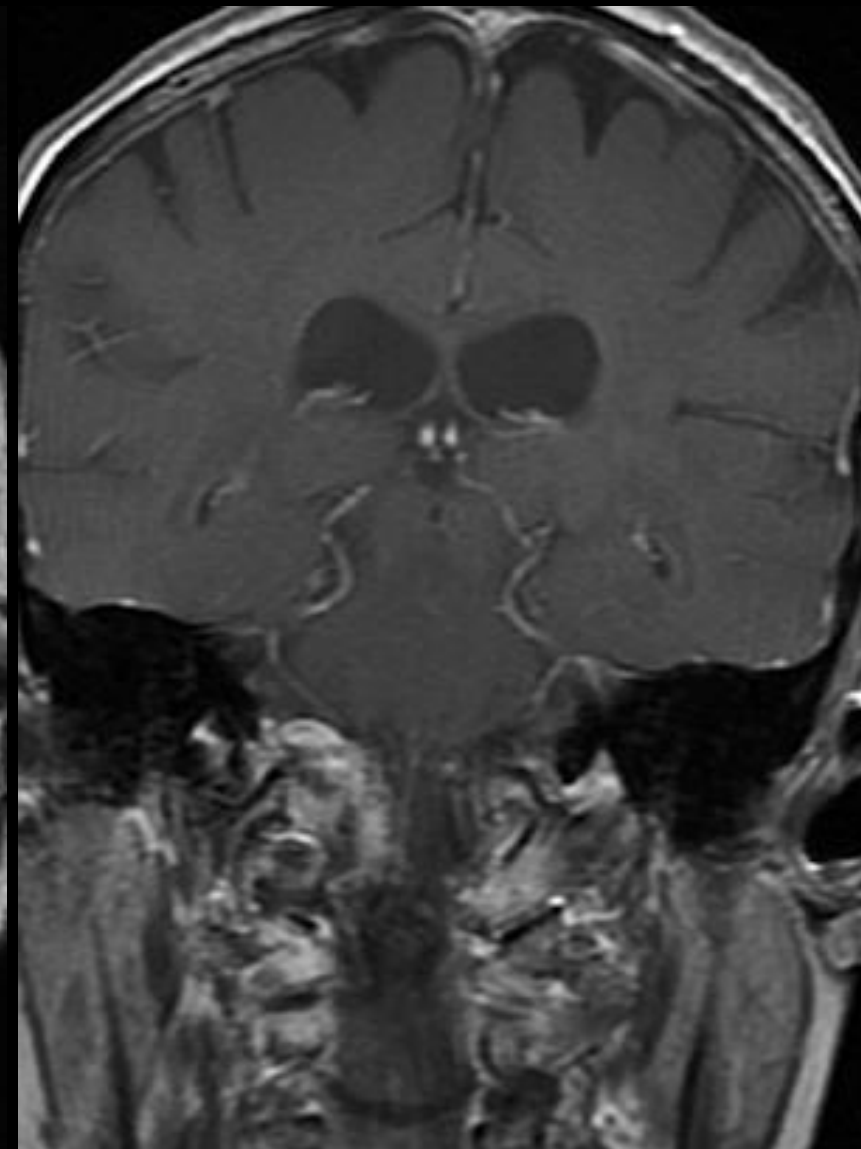
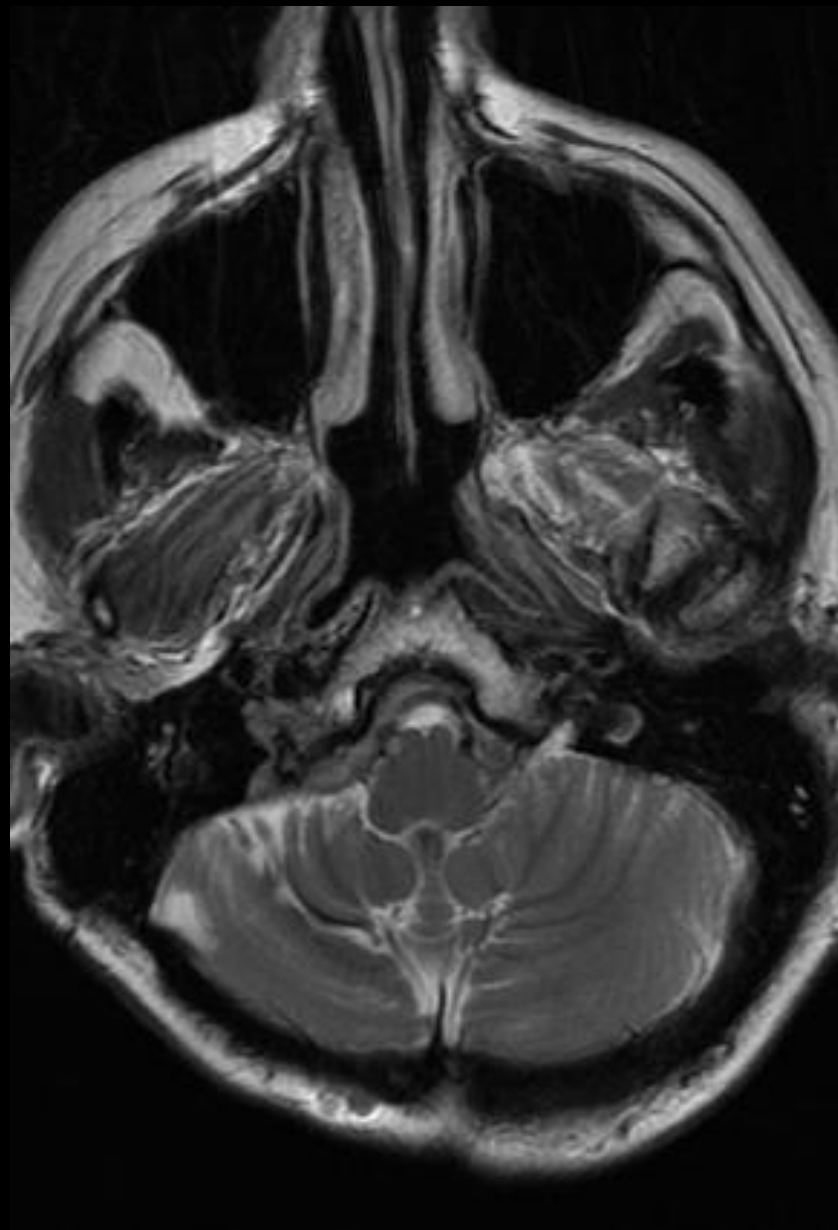
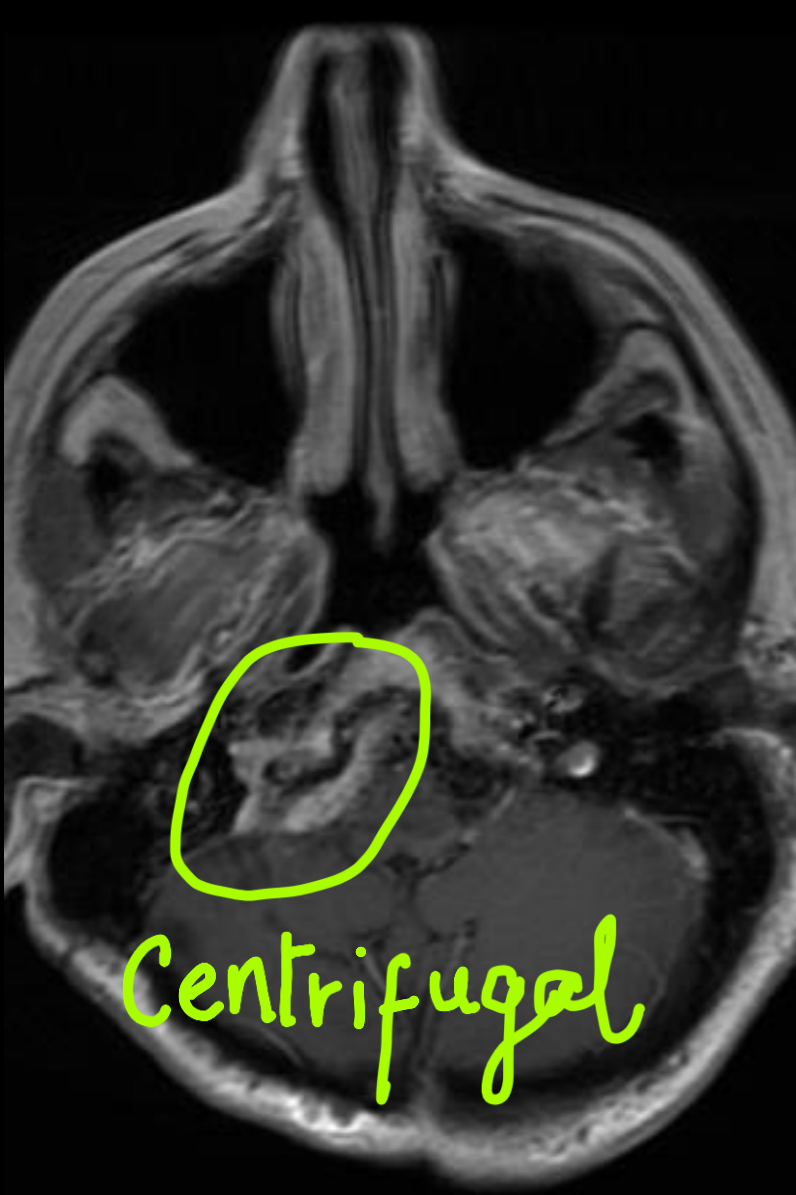


## Jugular Schwannoma

# Jugular foramen lesions

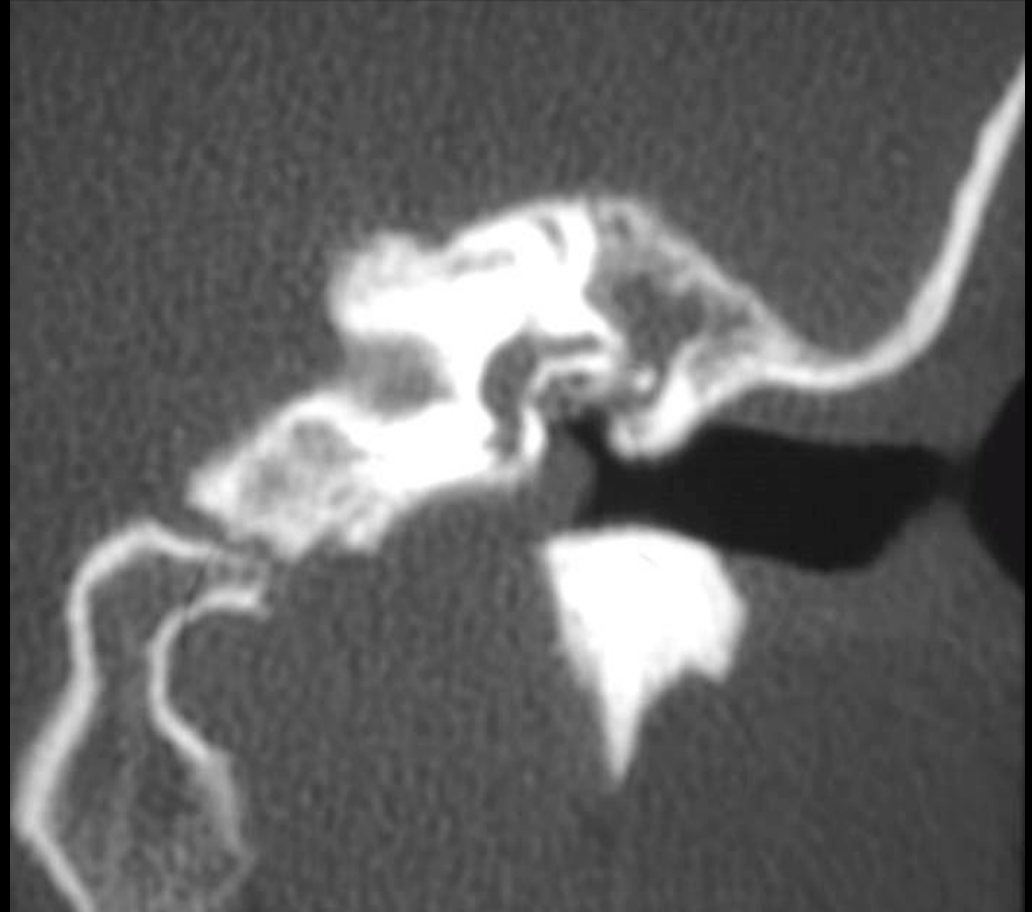
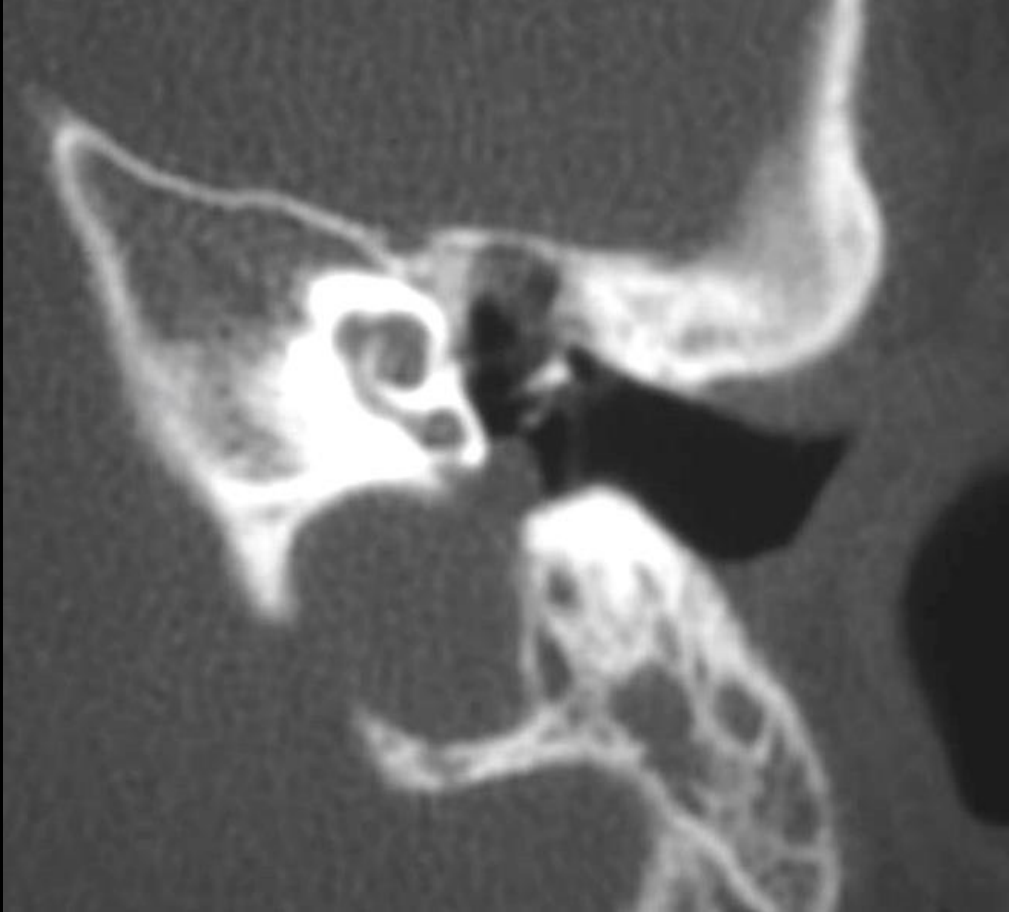


## Jugular foramen Meningioma

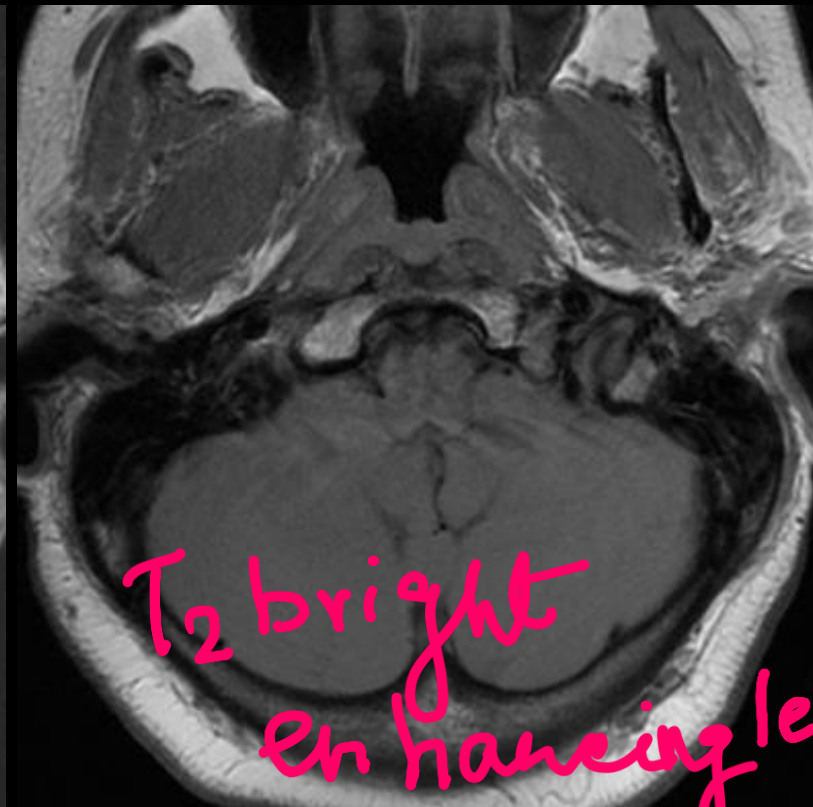
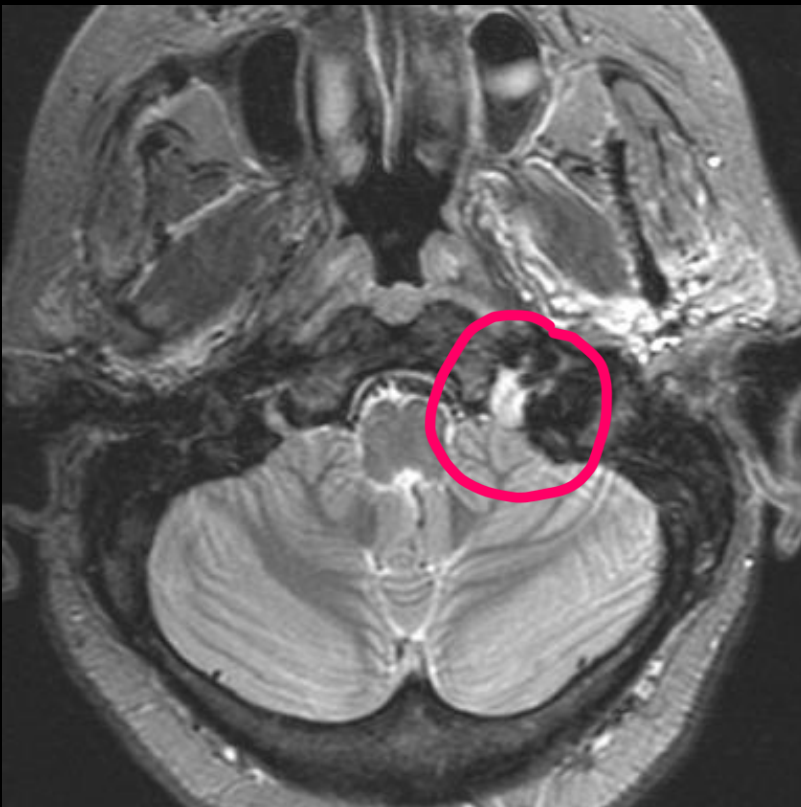


Jugular foramen Meningioma

# Jugular foramen lesions



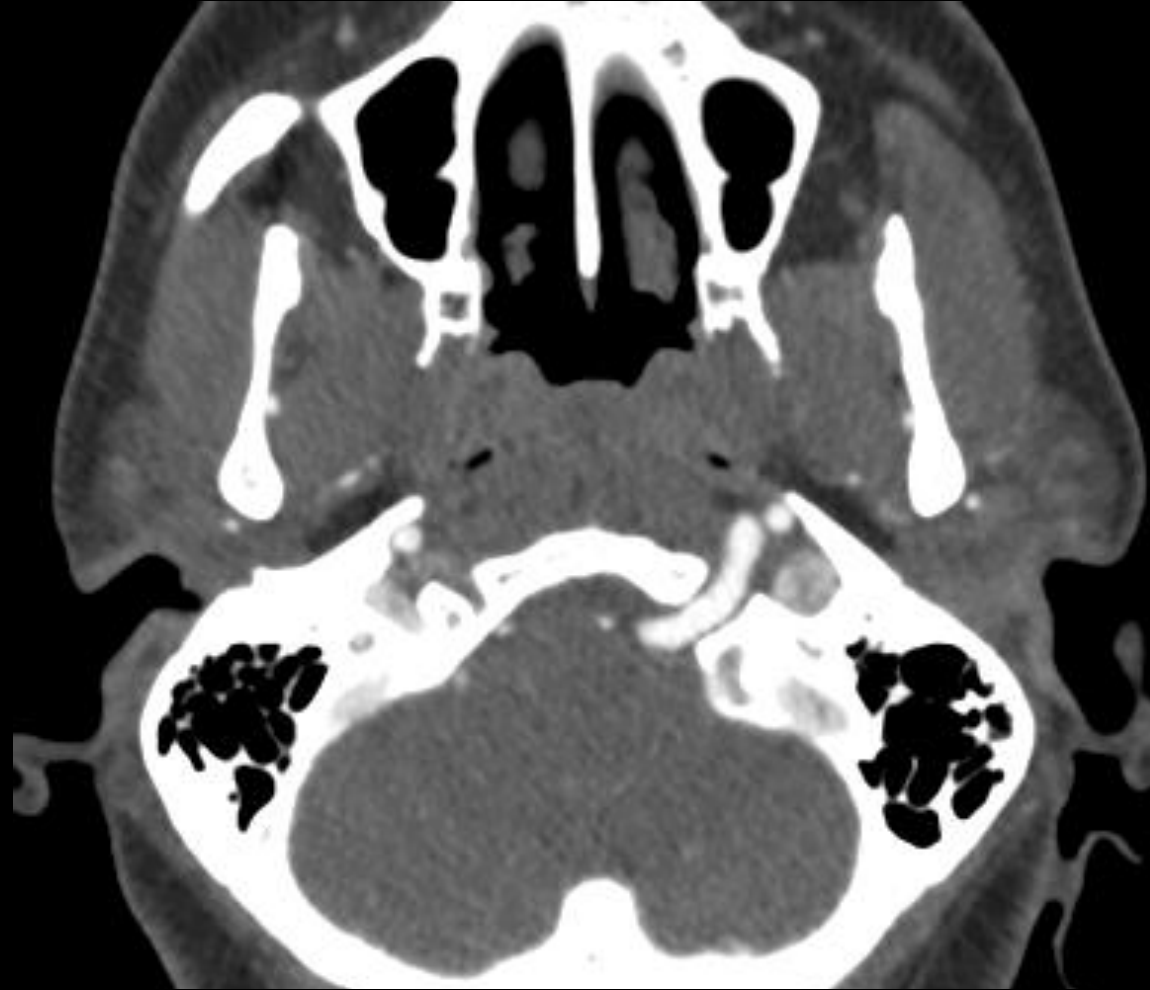
Jugular bulb dehiscence



T<sub>2</sub> bright  
enhancing lesion in hypoglossal  
canal

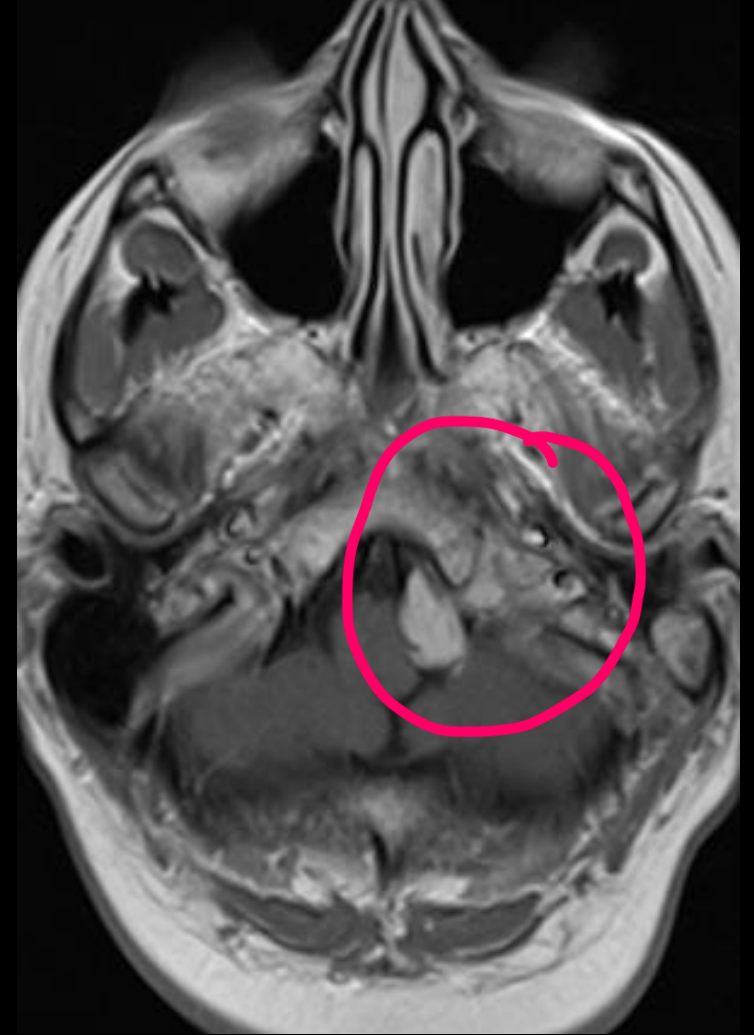
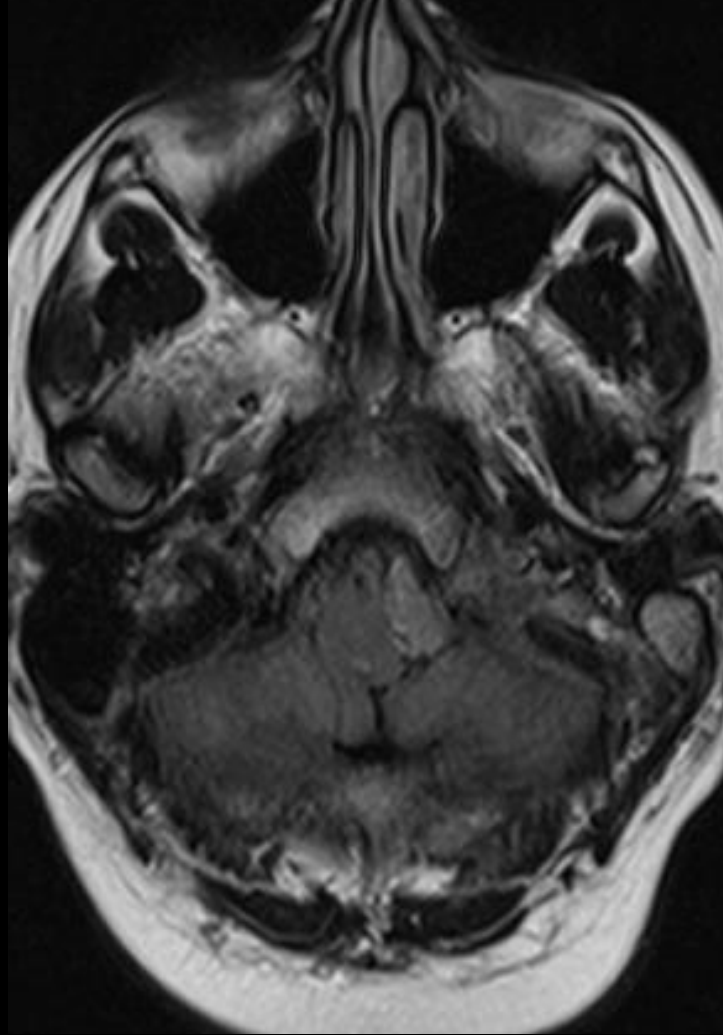
# Hypoglossal Schwannoma

# Hypoglossal canal lesions



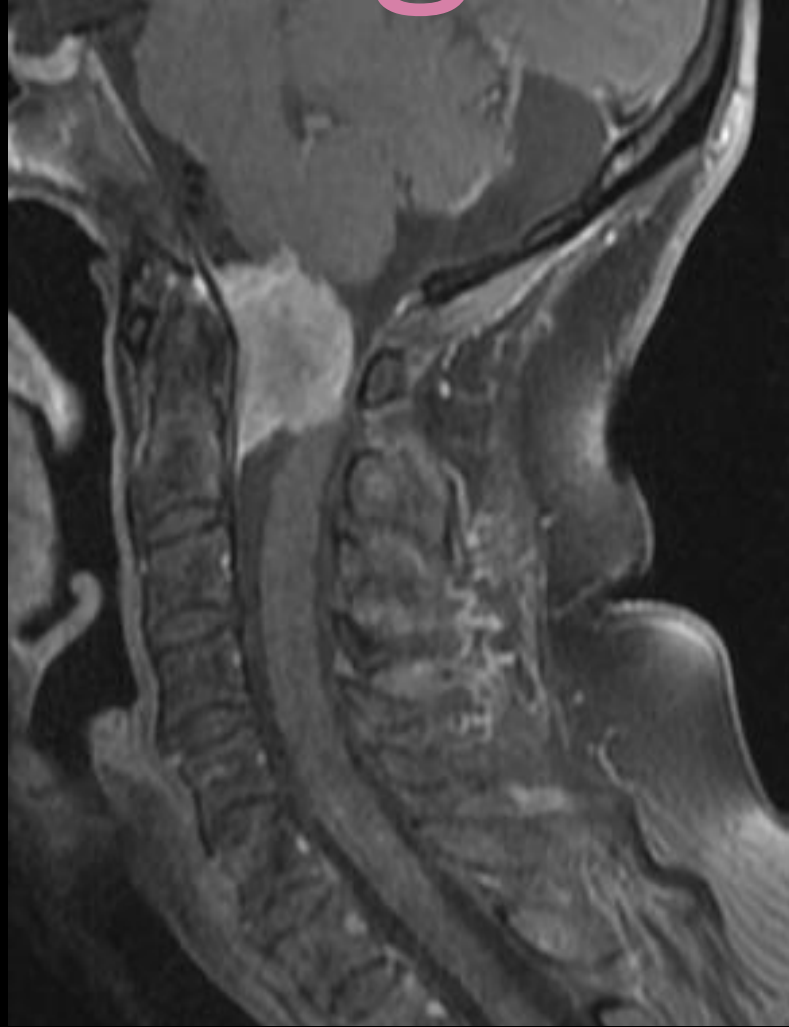
Persistent hypoglossal artery

# Hypoglossal canal lesions



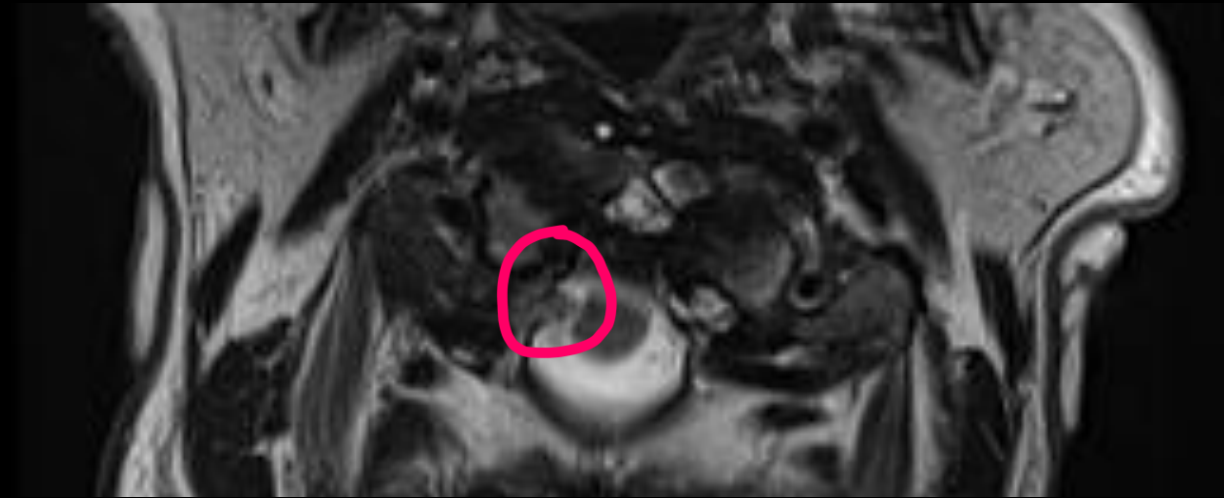
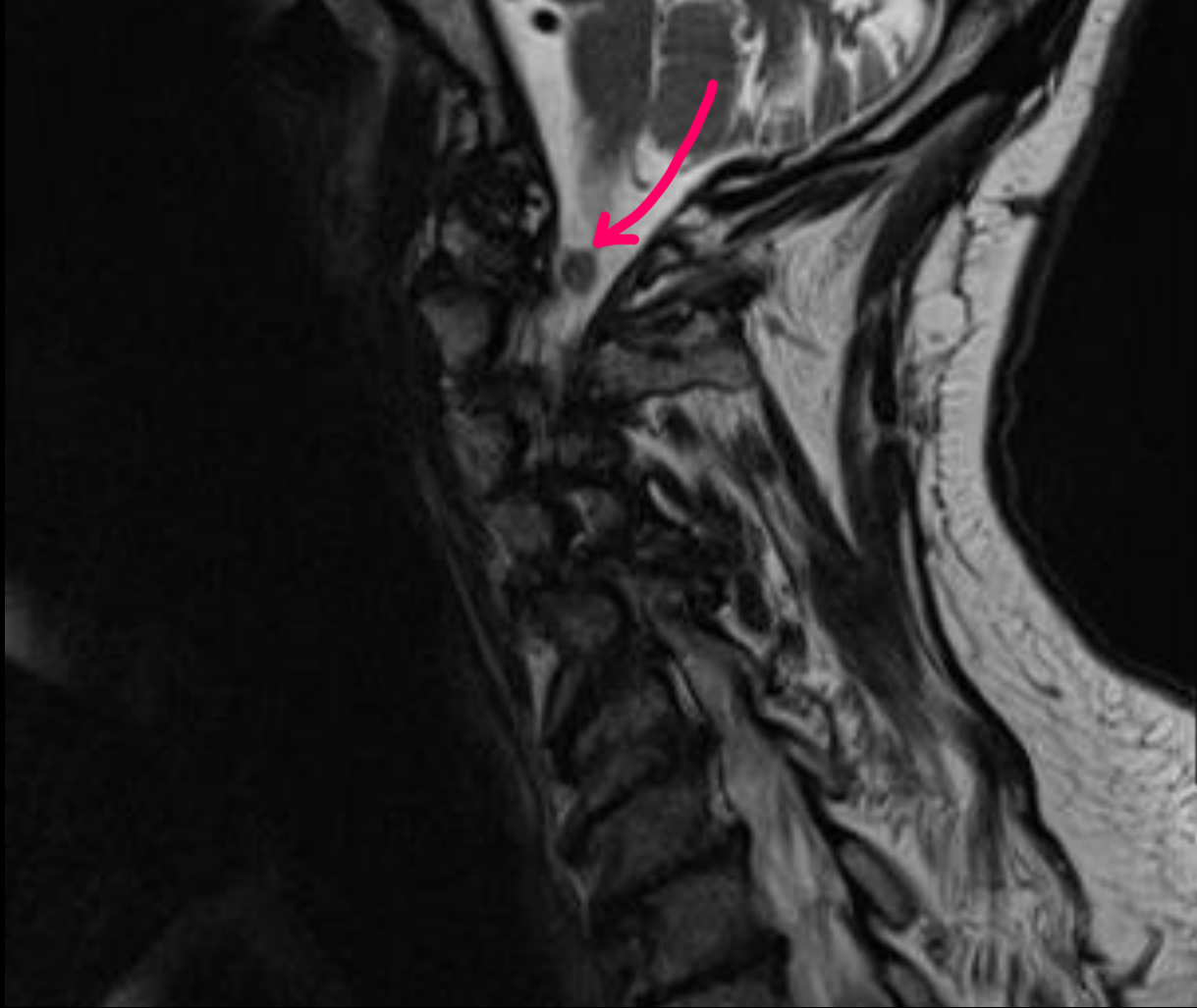
Meningioma

# Foramen magnum lesions



Meningioma

# Foramen magnum lesions



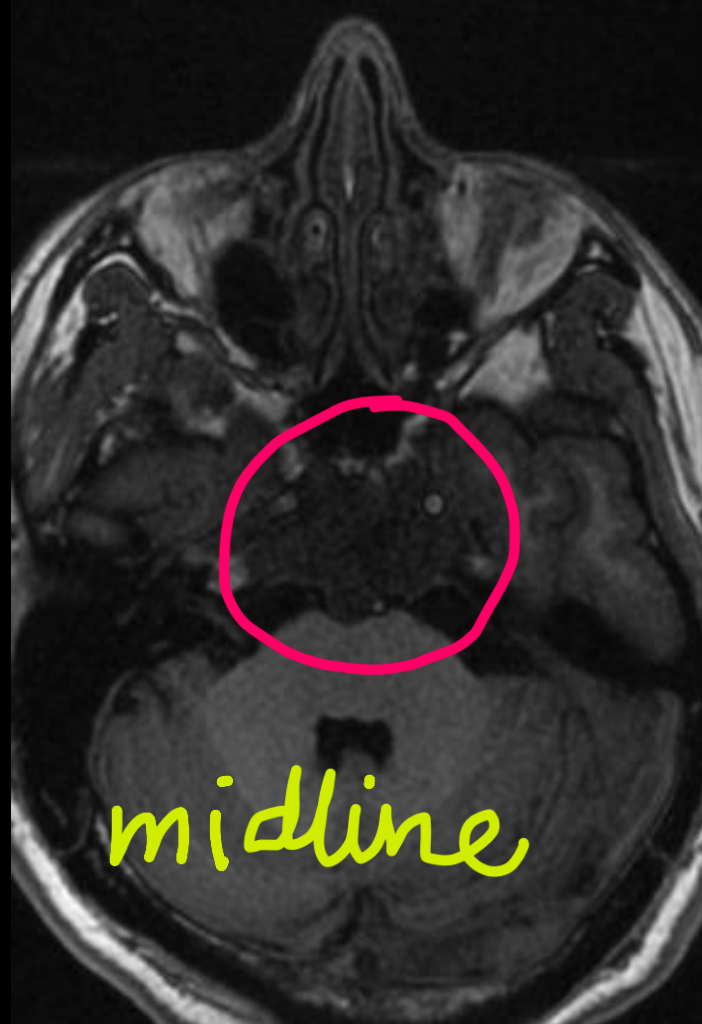
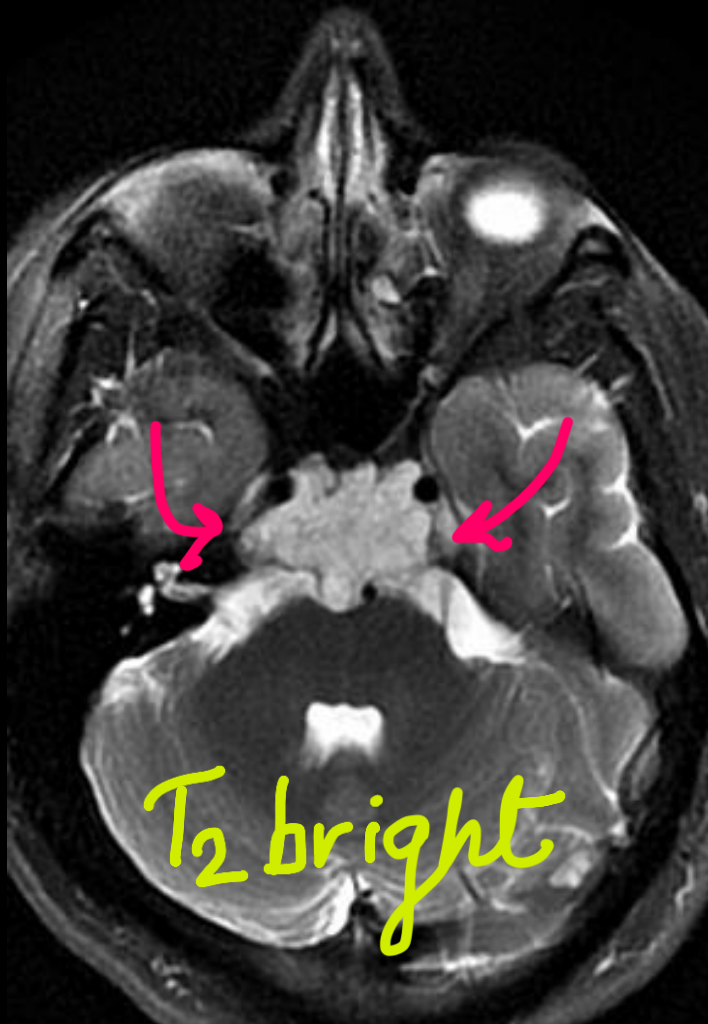
Benign enhancing foramen magnum lesion

# Clivus lesions



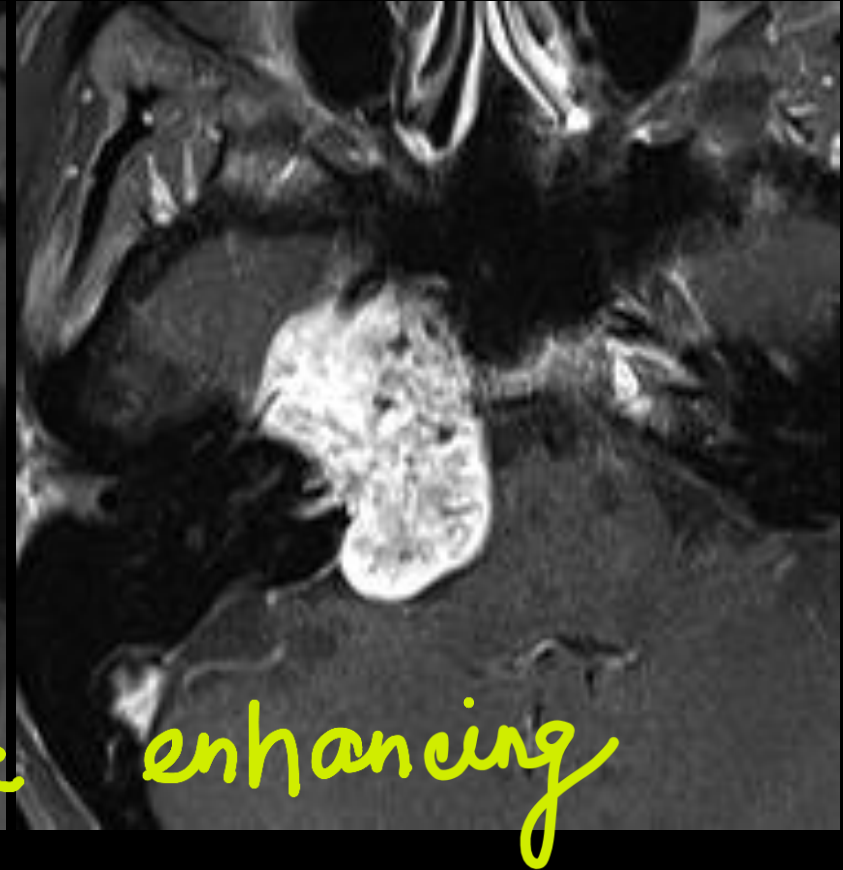
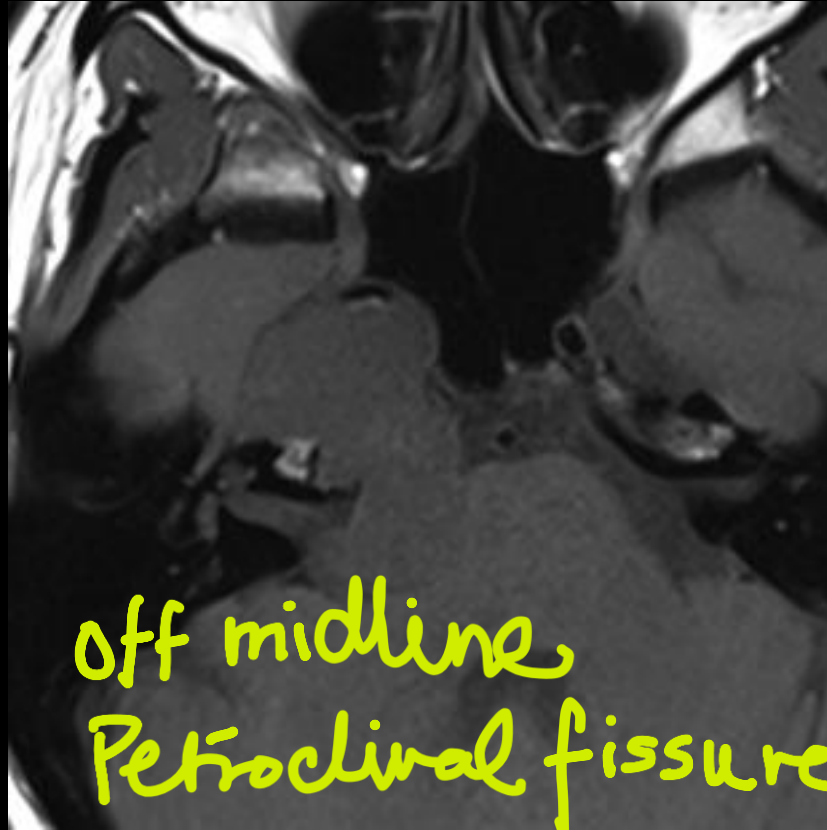
Skull base metastasis

# Clivus lesions



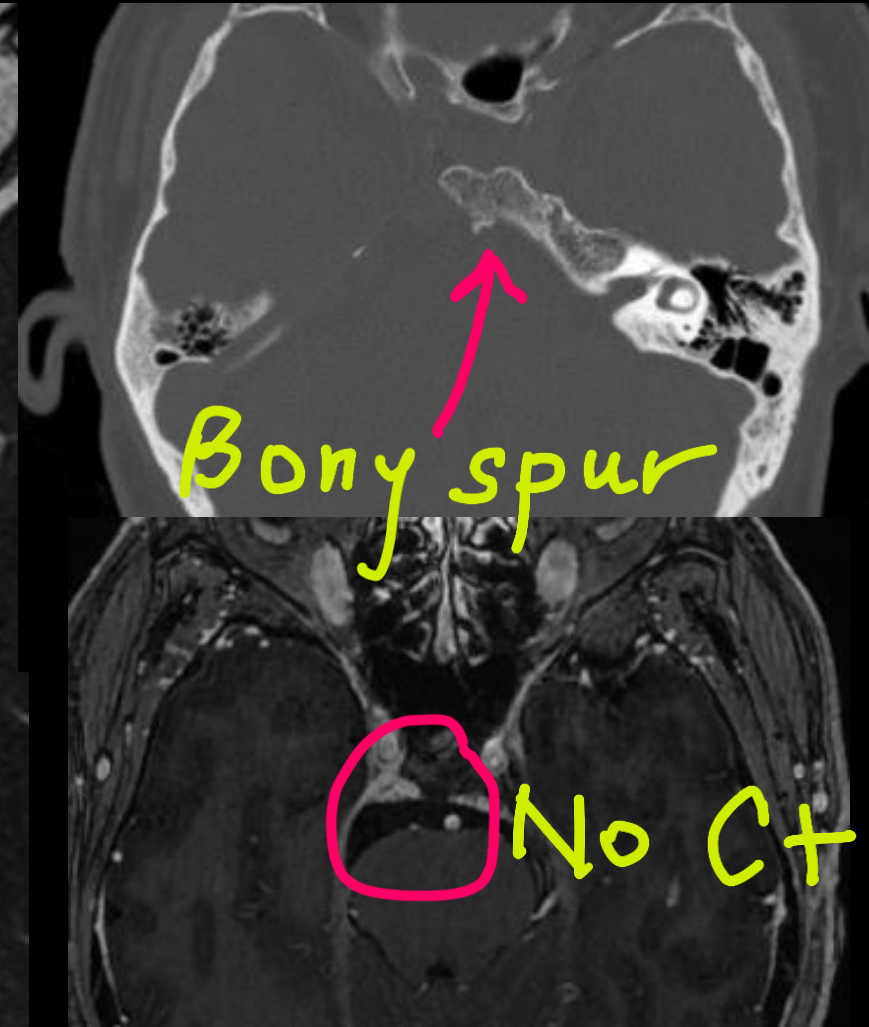
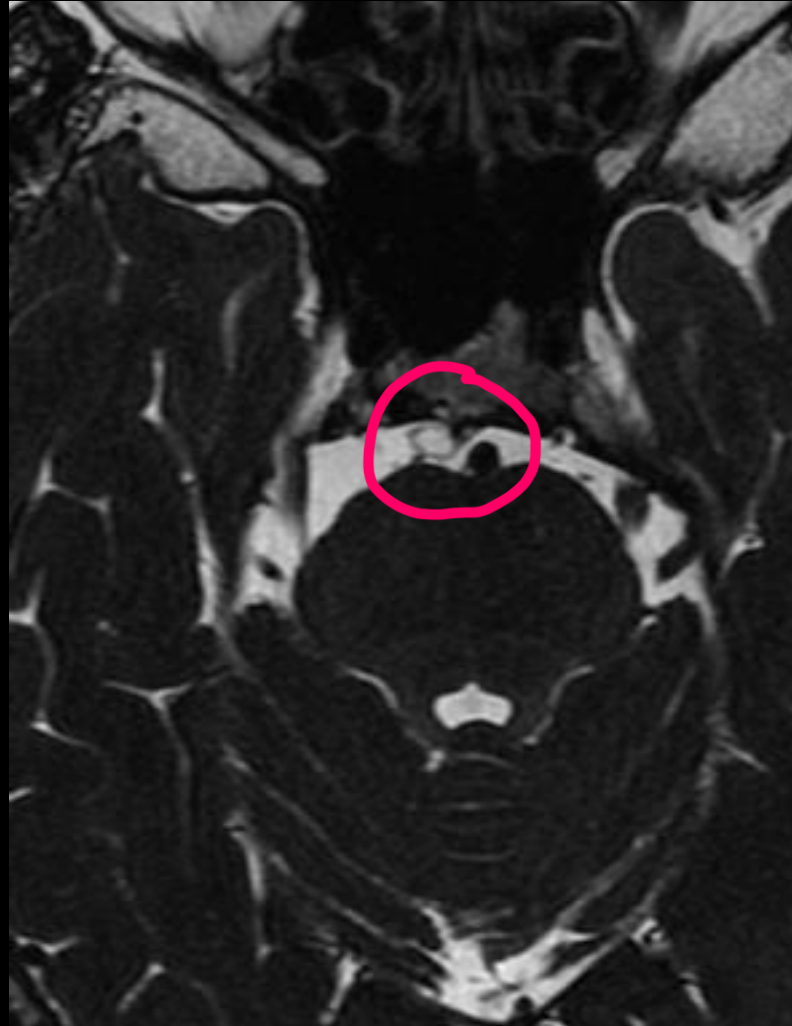
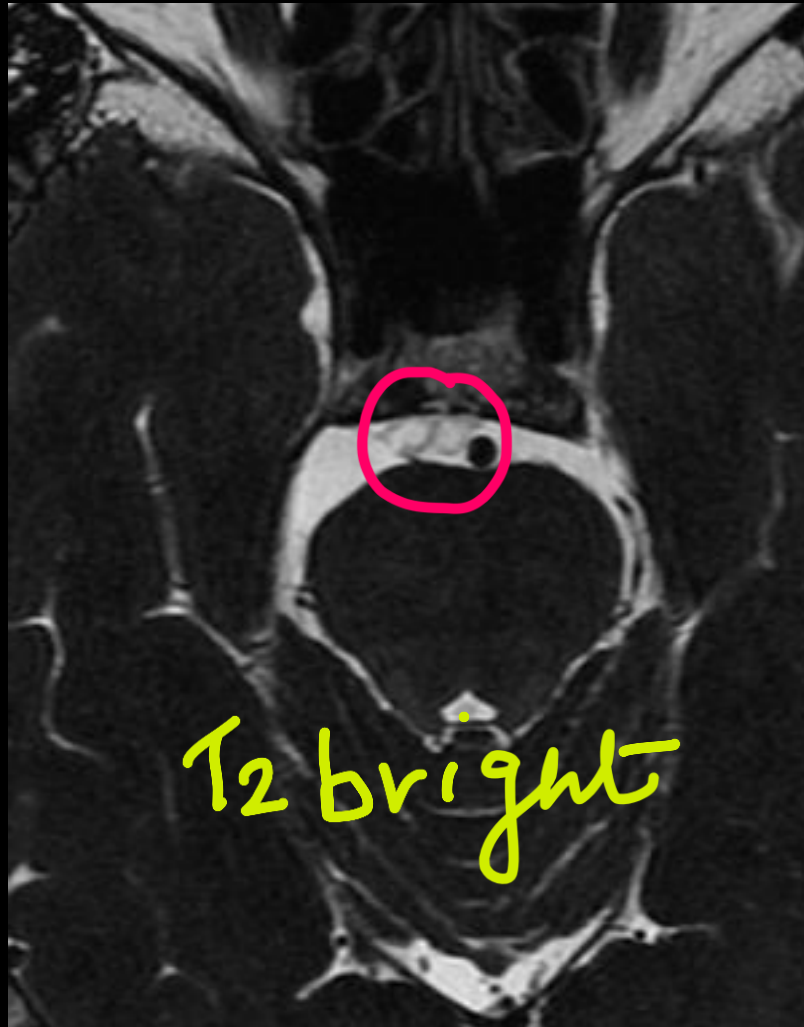
# Clival Chordoma

# Clivus lesions



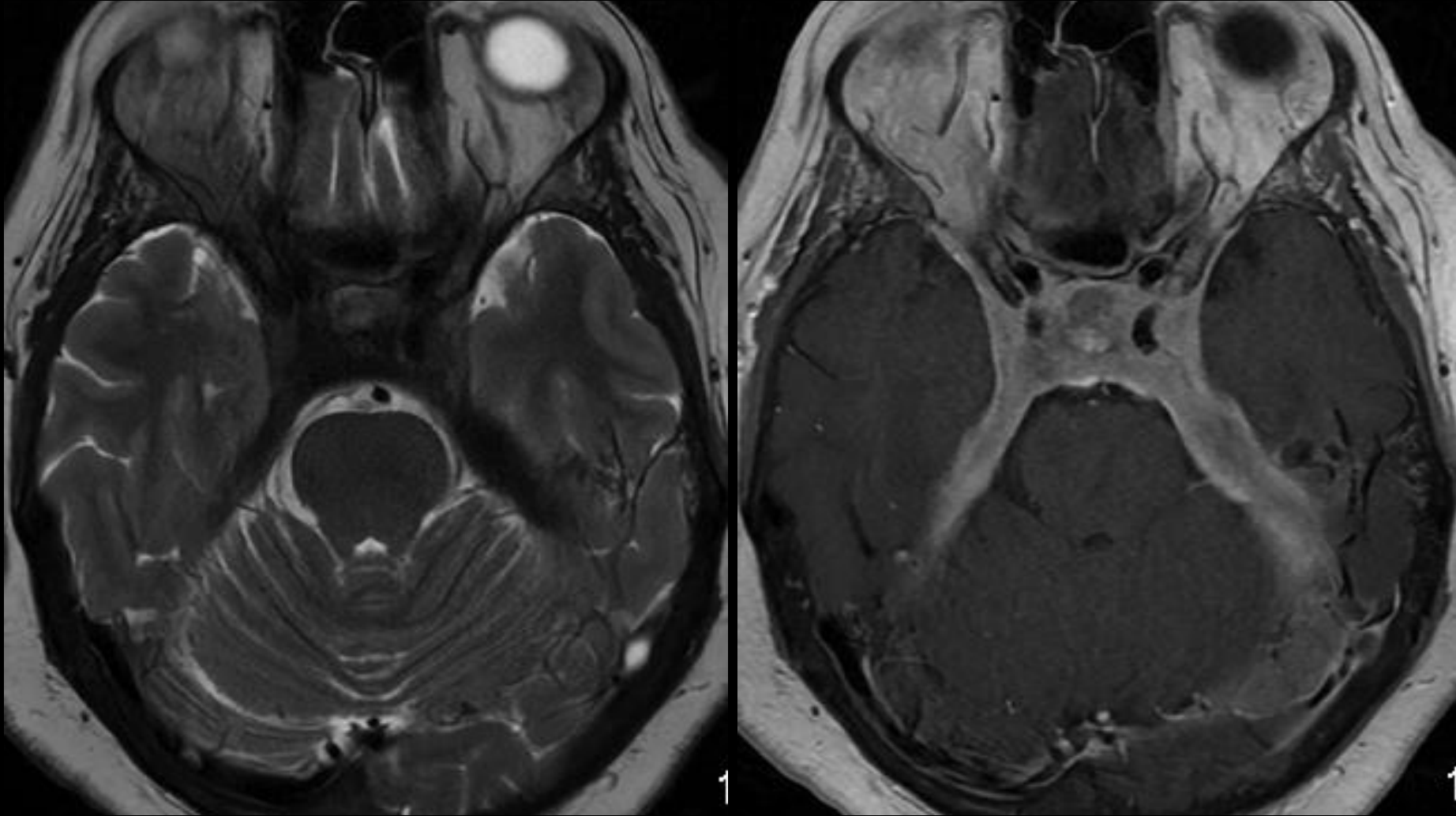
## Petroclival Chondrosarcoma

# Clivus lesions



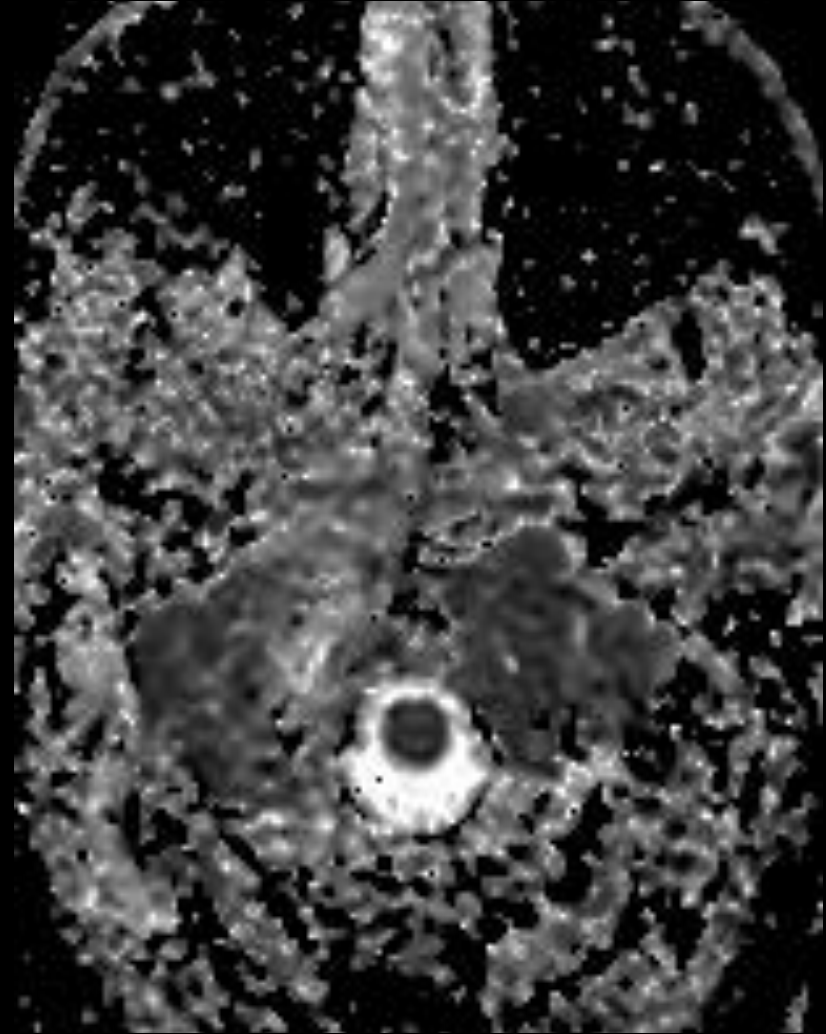
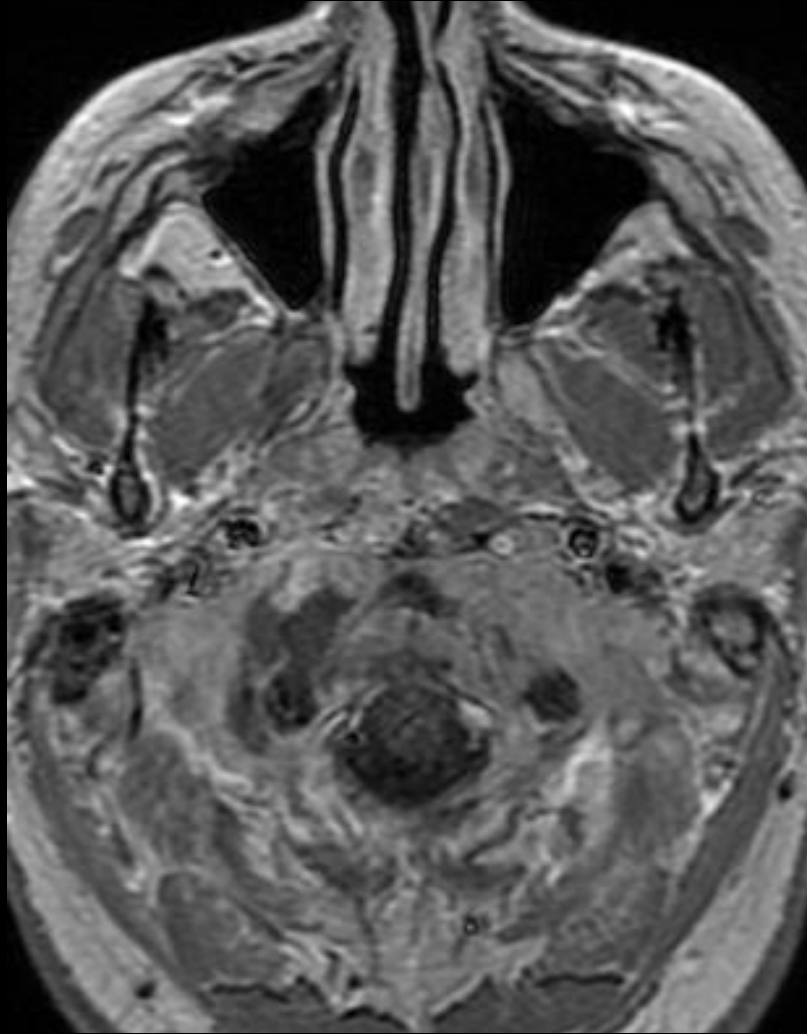
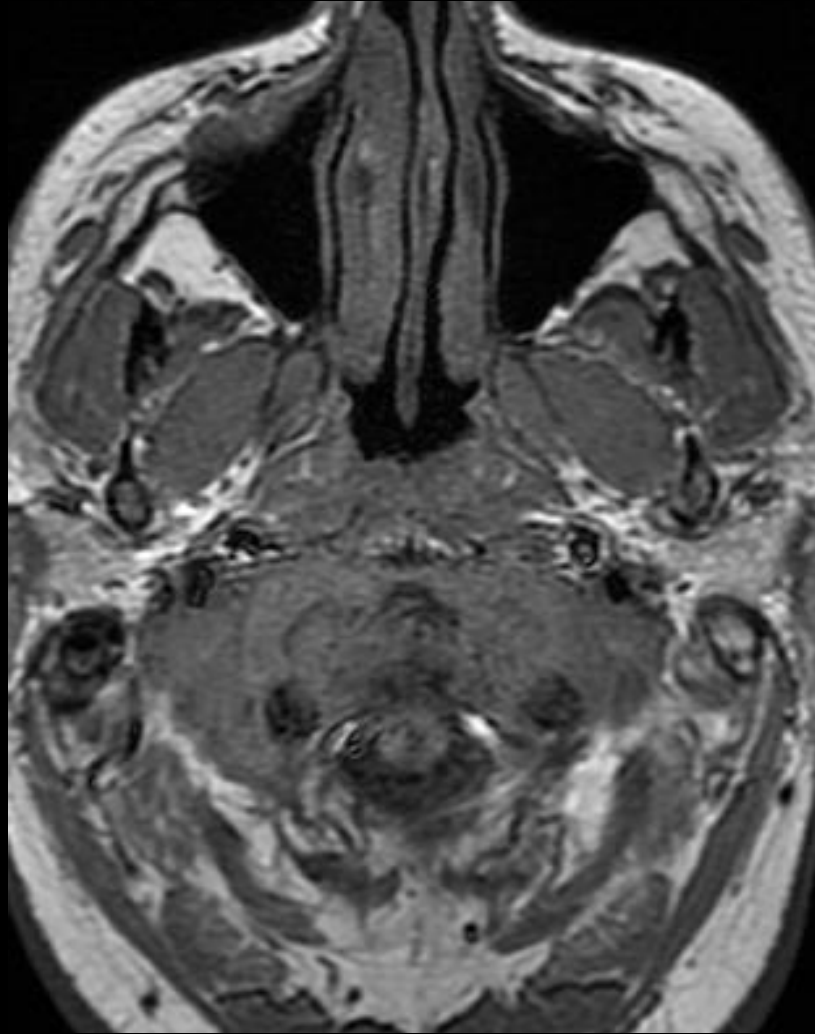
Benign notochordal cell tumor

# Skull base lesions



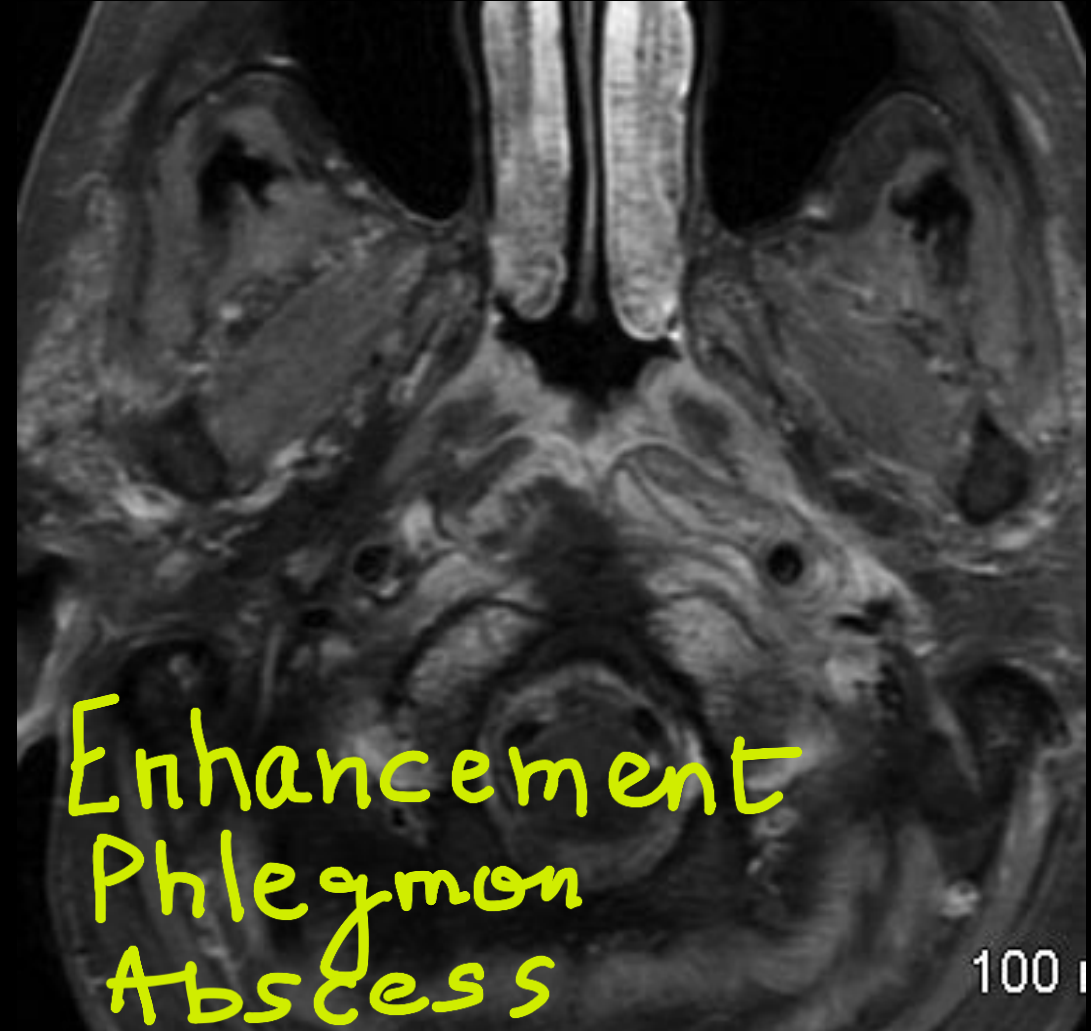
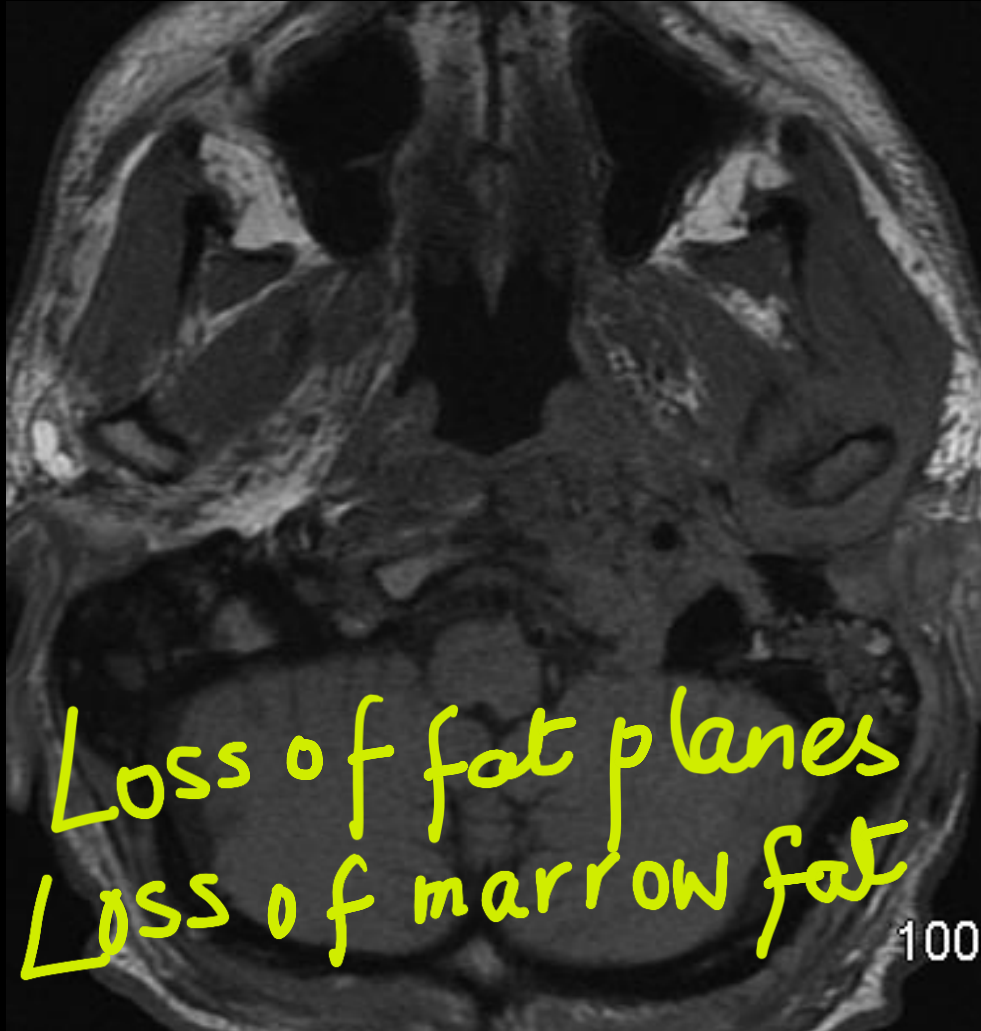
Pseudotumor/ IgG4-RD

# Skull base lesions



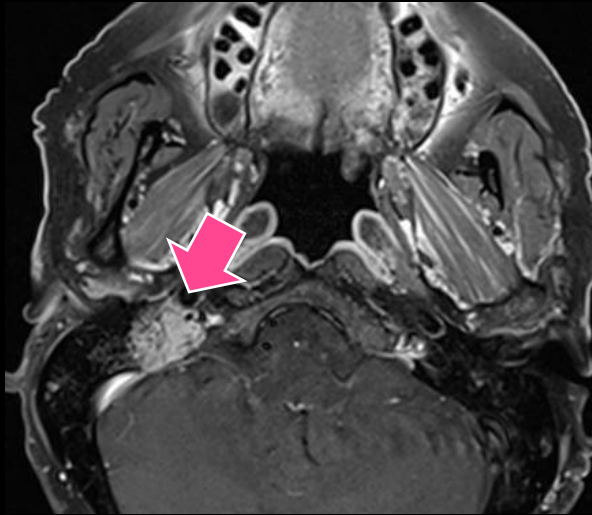
Lymphoma

# Skull base lesions

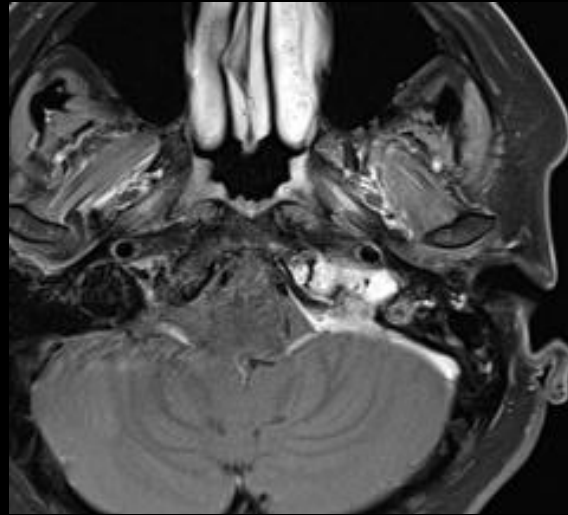


## Skull base osteomyelitis

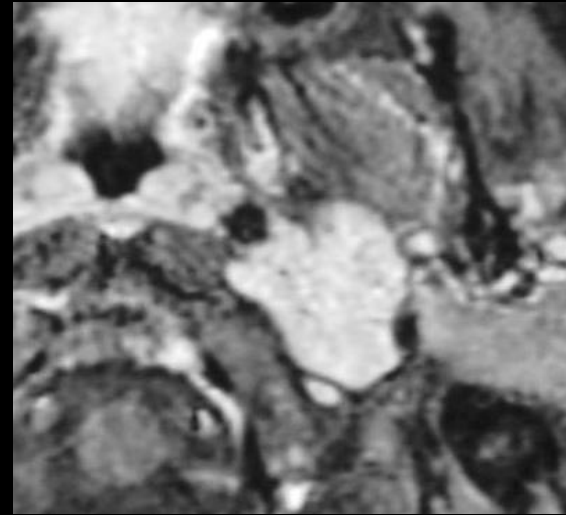
# Posterior skull base lesions



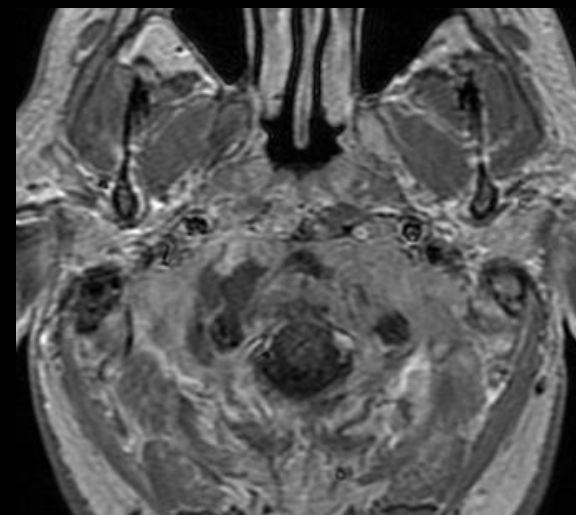
Paraganglioma



Meningioma



Schwannoma



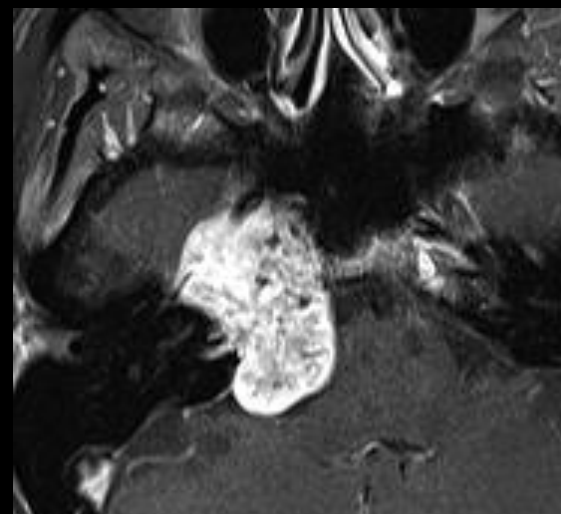
Lymphoma



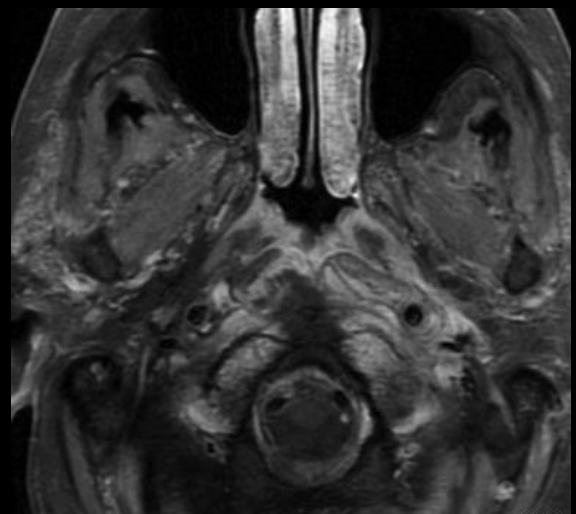
Metastasis



Chordoma



Chondrosarcoma



Osteomyelitis

# Objectives

- Review the anatomy of posterior skull base
- Review common pathologies

# Thank You

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Thank you