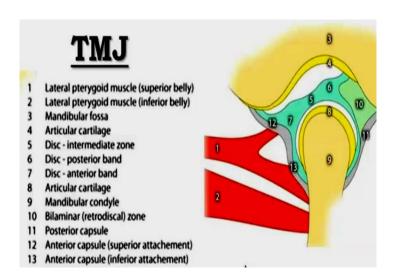
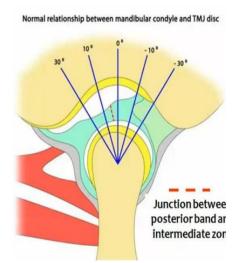
TMJ IMAGING





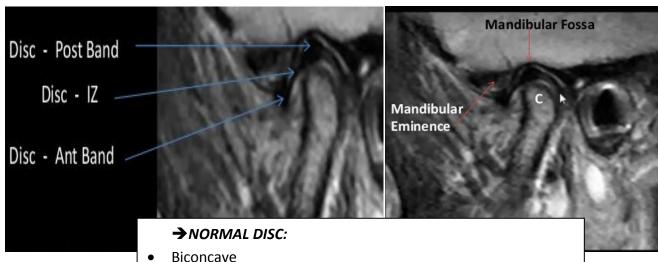


→ ARTICULAR DISC:

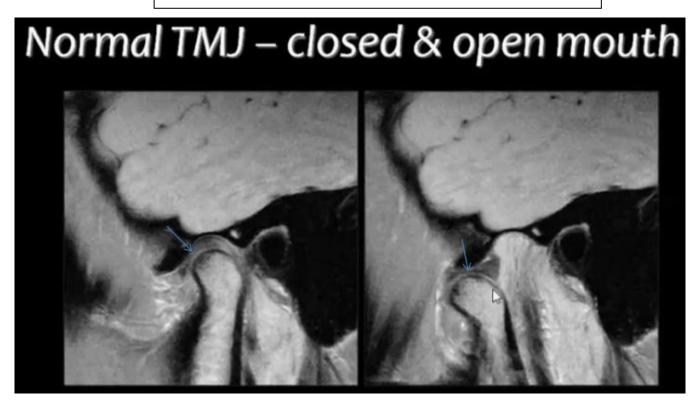
- Fibrous connective tissue
- Biconcave
- Ant band , post band ,intermediate zone
- Post band at 12 o'clock
- •

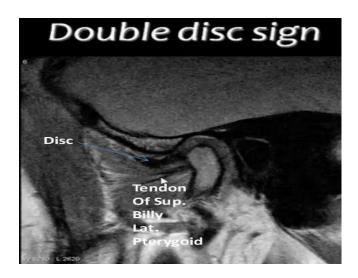
• MRI of TMJ is done oblique sagital – perpendicular on mandibular Head

TMJ DISC



- Low signal in all sequences
- Biconcave
- Located between condoyle & temporal
 - ⇒ Disc in **closed mouth** → IZ between Eminence & Condyle
 - ⇒ In open mouth → IZ also between Eminence & Condyle "As the disc move anteriorly with the condyle"





Thickened insertion of Lateral ptrygoid ms → Double disc sign

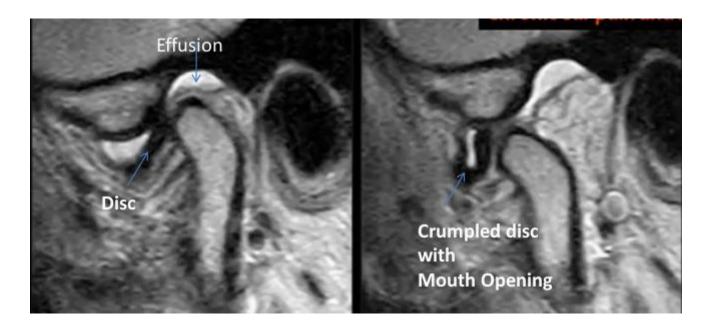
• TMJ INTERNAL DERANGMENT

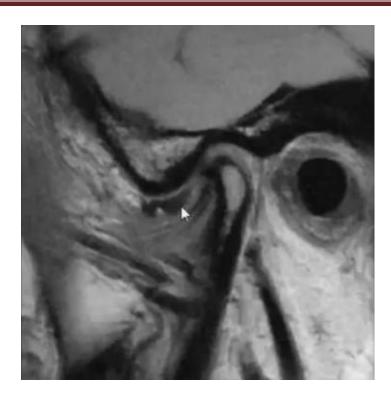
Change of disc biconcave shape to:

- o Rounded
- o Flattened
- Stuck disc = Fixed to temporal bone due to adhesions
- Etiology:
 - Trauma Spasm Arthritis
 - Bilaminar Zone defect

- o Crumpled
- Perforated

<u>Bilaminar zone</u>: structure attached to posterior band, control disc anterior motion during mouth opening





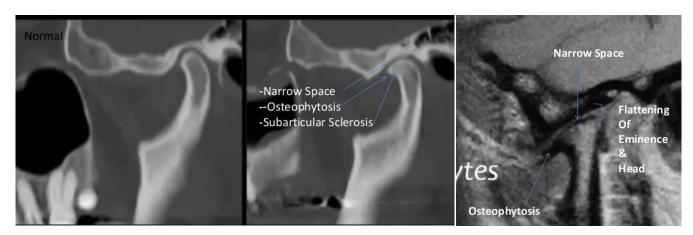
Stuck Disc:

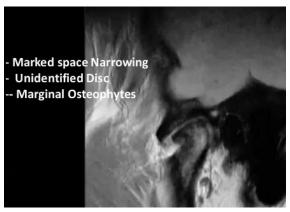
Disc is **Fixed**

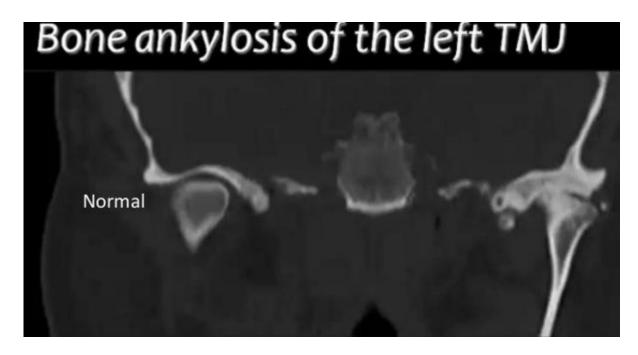
adherent to temporal bone either in closed or opened mouth

⇒ INDIRECT SIGNS OF INTERNAL DERANGMENT:

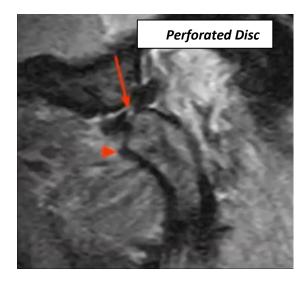
- 1. Large effusion
- 2. Thickened lateral pterygoid muscle
- 3. Osteo Athrtritic Changes







Ankylosis: 2 Types Fibrous & Bony



• TMJ DYSFUNCTION

⇒ **Def:** Abnormal relation of Disc & articular surface

 \Rightarrow 1 M : 8 F

⇒ C.P.: - pain - Click - function restriction

⇒ Disc is sublaxated or dislocated

o Most common: Anterior +/- recapture on opening mouth



