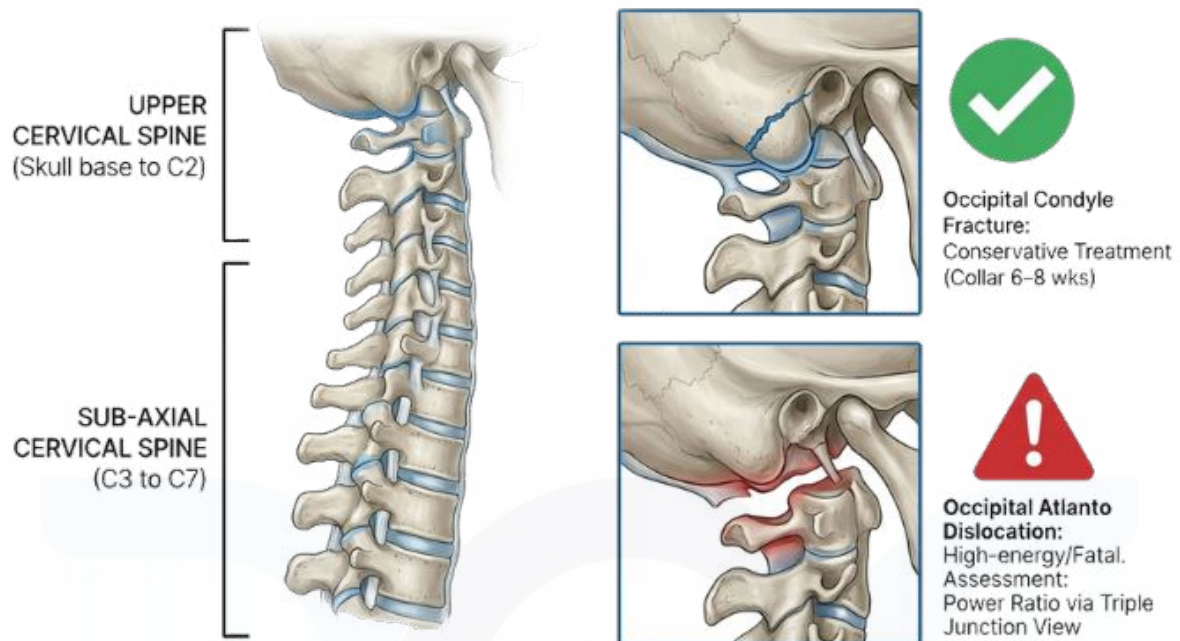




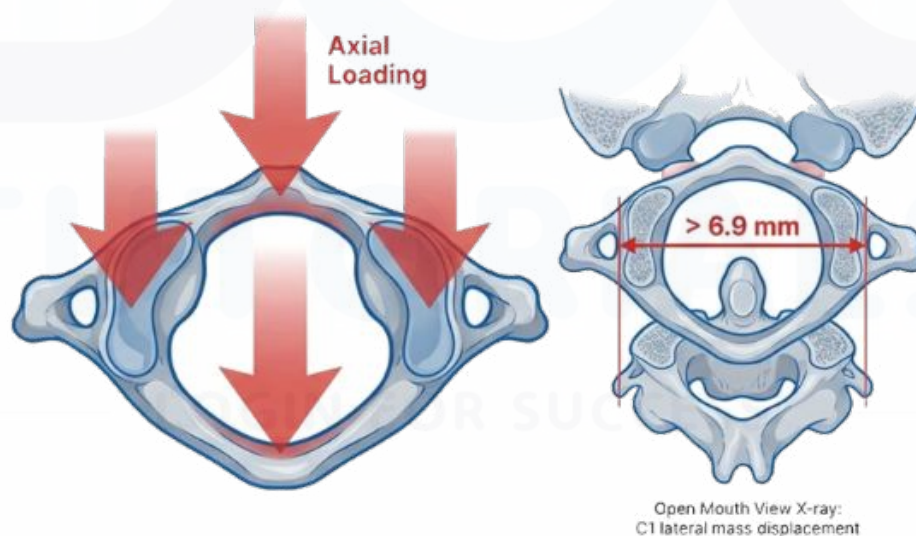
PG Residency Neurosurgery

Smart Notes. Better Scores.



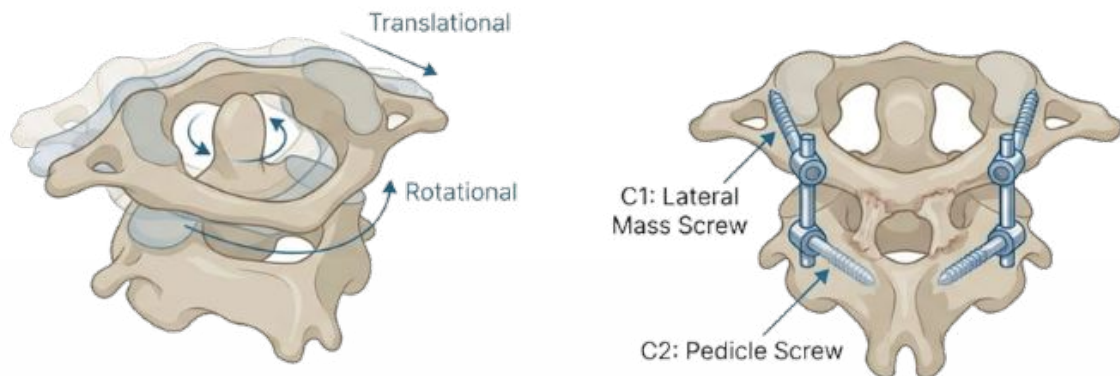


Atlas (Jefferson) Fracture



- **Mechanism:** Axial Loading
- **Stability:** Dependent on Transverse Ligament integrity
- **Unstable if:** Combined lateral mass deviation > 6.9 mm (implies ligament rupture)
- **Treatment:** Mostly non-operative (Collar or Halo)

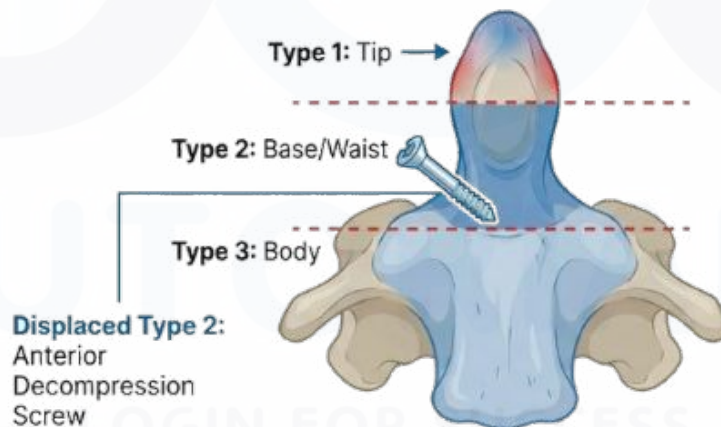
Atlantoaxial Instability & Fusion



Indication: Isolated traumatic transverse ligament rupture.

Procedure: Posterior C1-C2 Fusion.

Axis (C2) Dens Fracture Classification & Management



Management Protocol

- **Acute/Majority:** Non-operative (Hard collar/Halo x 3 months)
- **Displaced:** Internal fixation
- **Nonunion:** Posterior C1-C2 fusion
- **Elderly/Unfit:** Conservative (Soft collar)

Hangman's Fracture

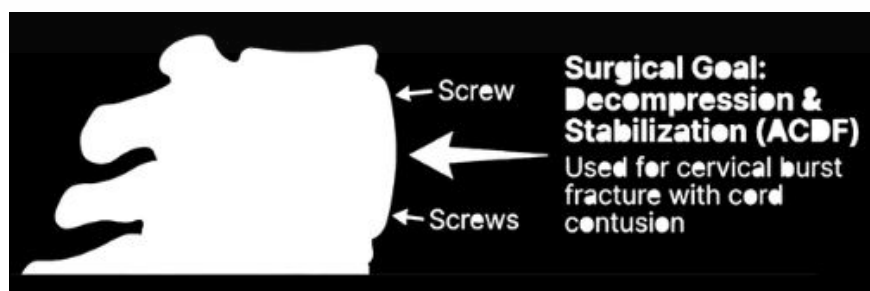
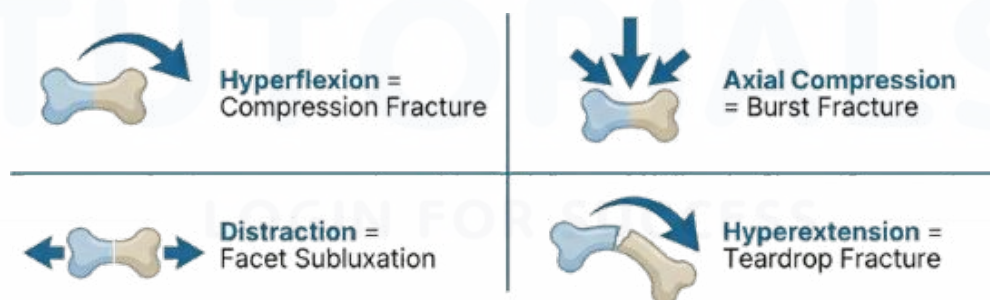


Definition: Traumatic spondylolisthesis of Axis (C2) on C3

Imaging Signs: Minimal forward translation or C2-C3 subluxation

Treatment: Posterior stabilization for significant displacement

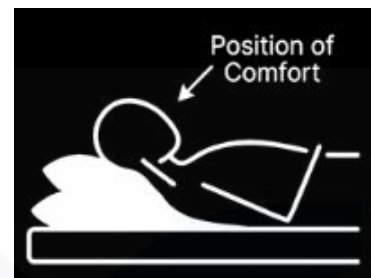
Sub-axial Injury Mechanisms & Surgical Goal



Ankylosing Spondylitis: Collar CONTRAINDICATED



CONTRAINDICATED



- **Pathology:** Auto-fusion, rigid spine.
- **Risk:** High susceptibility to fractures.
- **Management:** Avoid collar; manage in position of comfort.

Pathogenesis & High-Risk Zones



Aneurysm

AVM

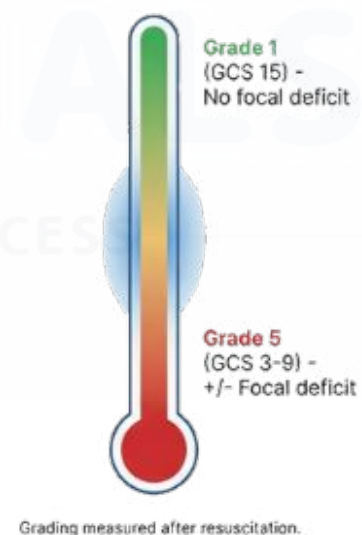
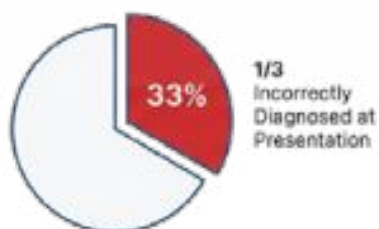
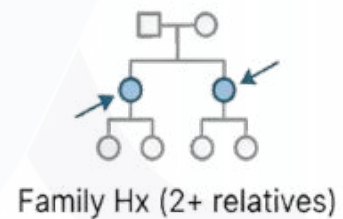
Pathogenesis: Spontaneous rupture of Aneurysm or AVM.

High Risk Zones: Branch points (A Comm & ACA/MCA Bifurcation).

SAH Comparison

Perimesencephalic SAH	• Venous origin • Basal cistern (anterior to pons) • Good prognosis
Aneurysmal SAH	• Arterial origin • Diffuse / specific sites • High risk

Aneurysm Risk Factors



SAH Diagnostic Algorithm



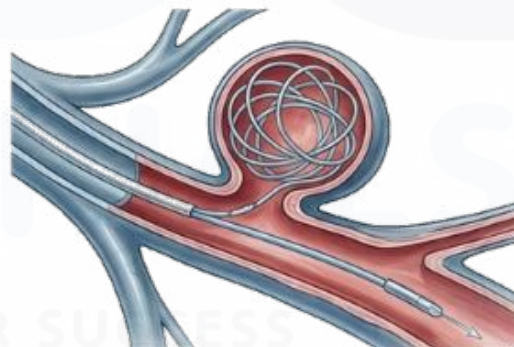
Fisher Grading (CT)

- Grade 1 (None)
- Grade 4 (Intracerebral/Ventricular)

Aneurysm Treatment Comparison



Surgical Clipping



Endovascular Coiling

Urgency: Early intervention is crucial.

Modern Medical Atlas

Priority: Prevent Re-bleeding

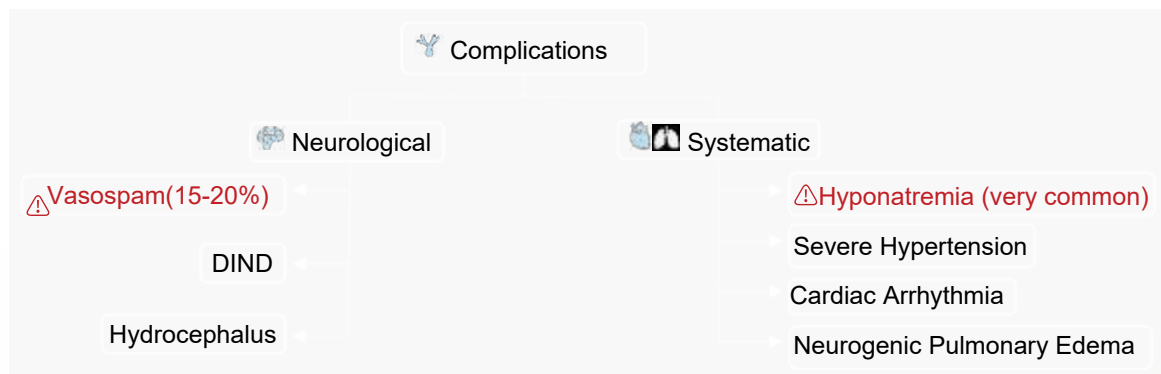


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