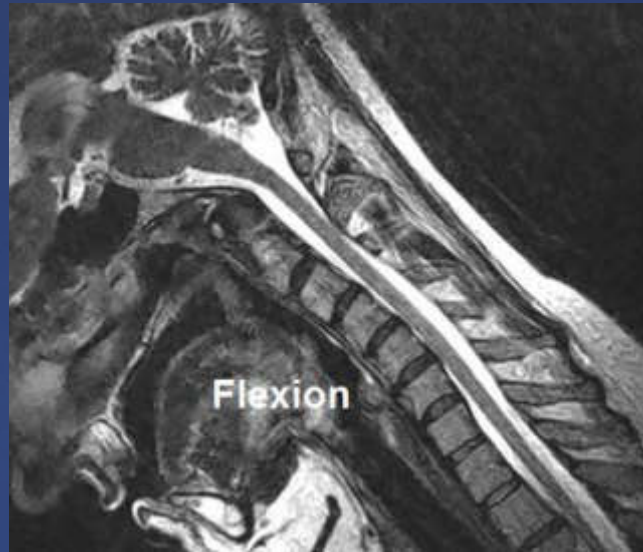
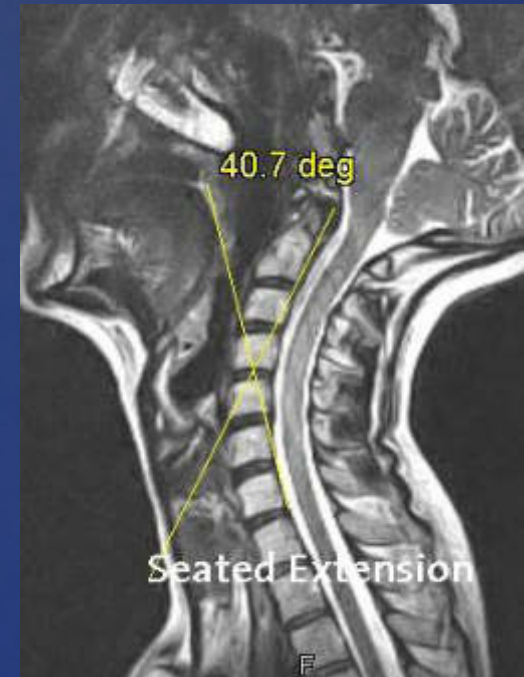


# Views used to examine the cervical spine

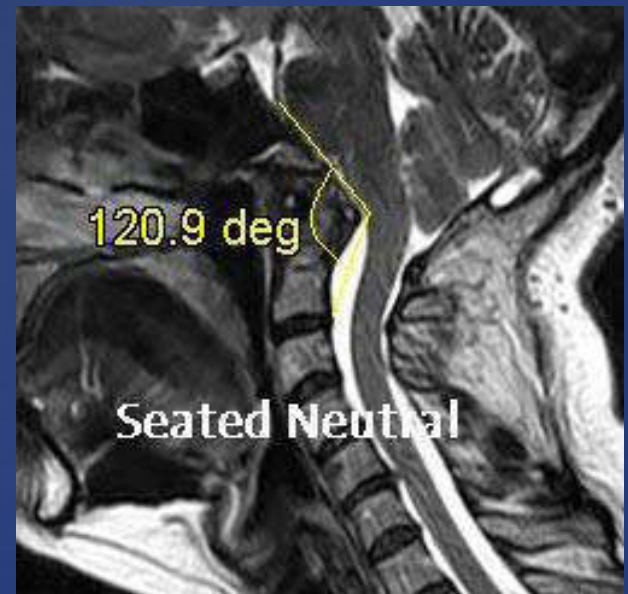


# Cervical Spine

## Cervical Spine Angle



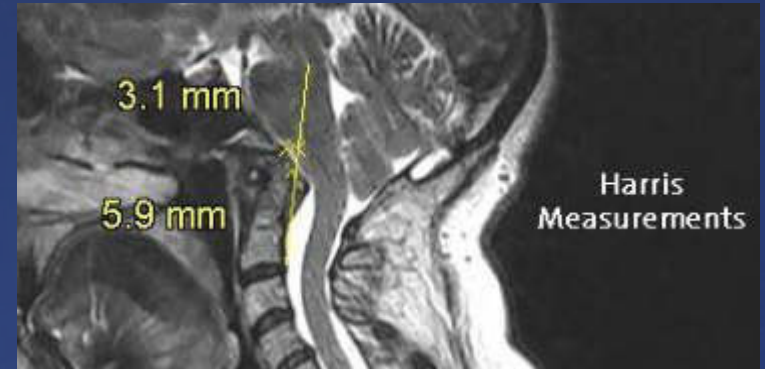
Clivo-vertebral or Clivo-axial angle  
(normal range 150°-180°).





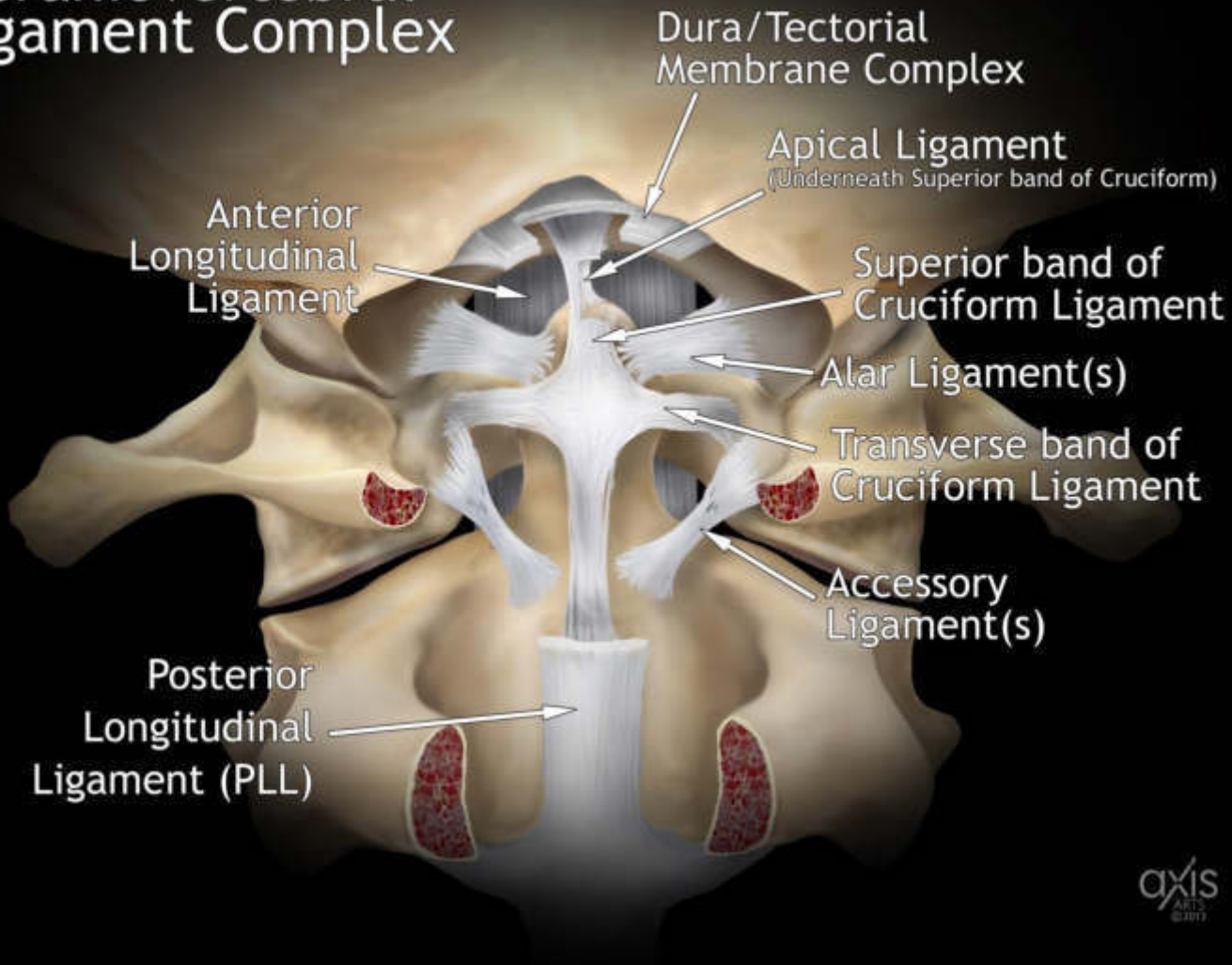


(The Grabb-Oakes measurement is the perpendicular distance from the BpC2 line [Basion to posterior inferior C2 body] to the dura. A value greater than or equal to 9 mm indicates ventral brainstem compression)

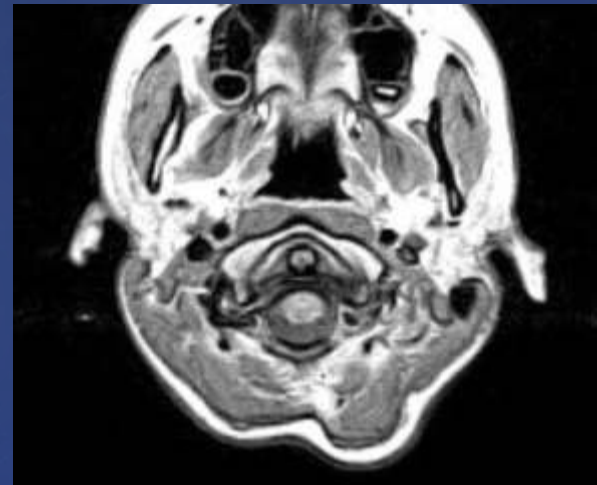
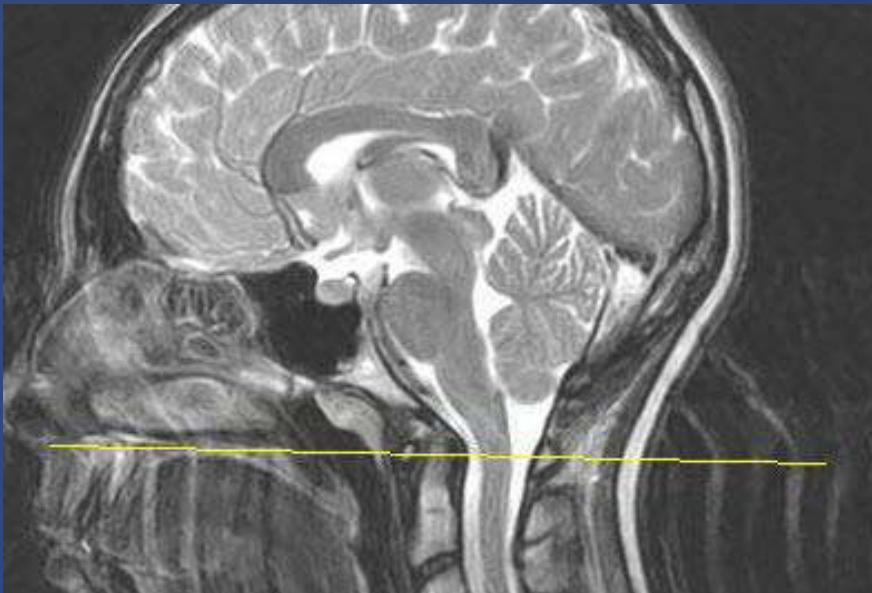


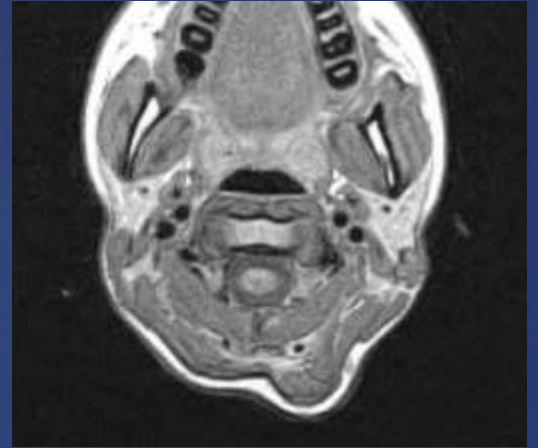
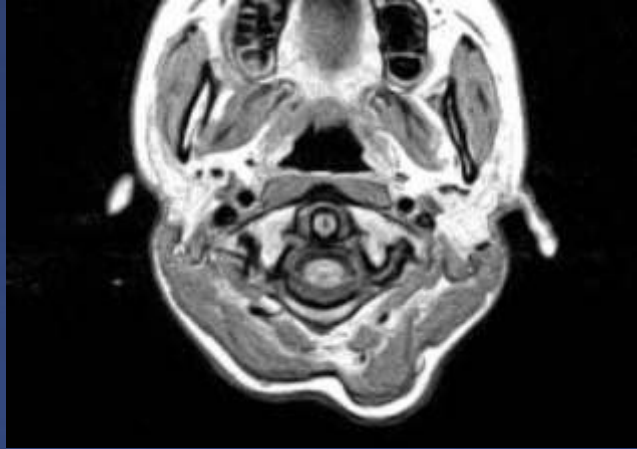
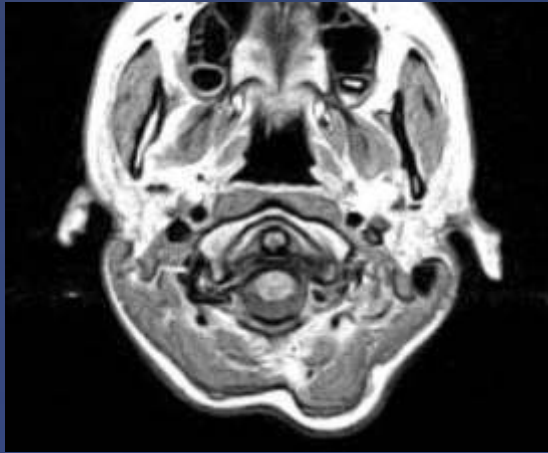
(The basion axial interval is the length of a line drawn between the tip of the basion and a line drawn along the posterior aspect of the odontoid peg. The basion dental interval is a distance measured between the tip of the basion and the tip of the dens. Both these measurements should be less than 12 mm. If they are greater than 12 mm, then occipito-atlantal disassociation has occurred. These measurements are often referred to as "The rule of 12")

# Craniovertebral Ligament Complex



## Axial sections in line of the Atlas (C1)







# Specific coronal views of the cranio-cervical junction to show the position of the odontoid peg



Normal position of the odontoid peg

The alar ligaments are intact (arrows)

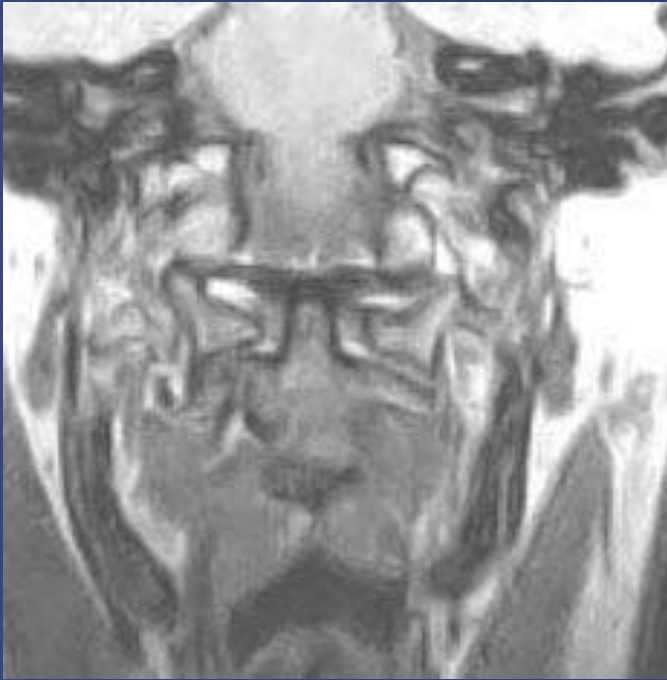


The odontoid peg is deviated to the right

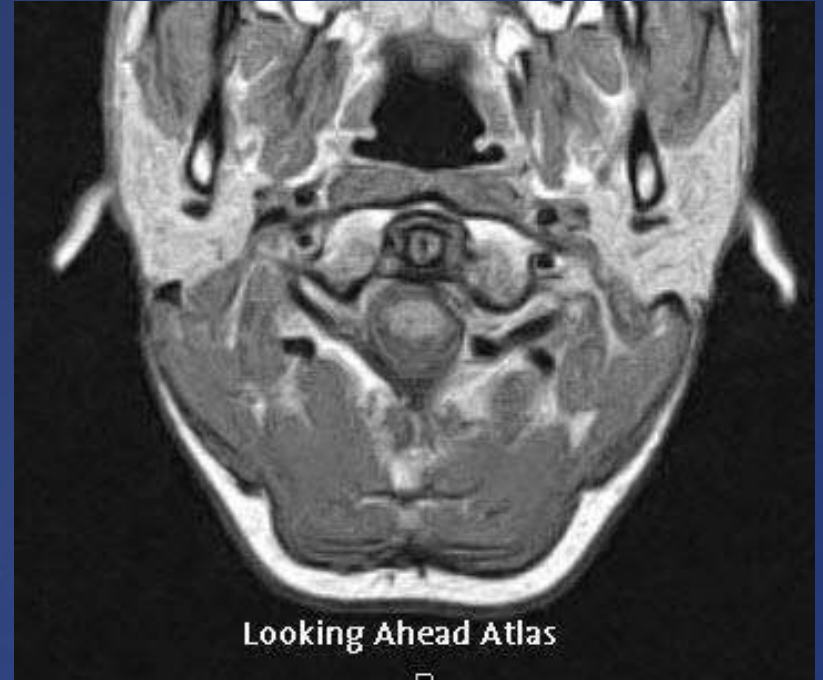
The alar ligaments are not clearly seen due to them being damaged



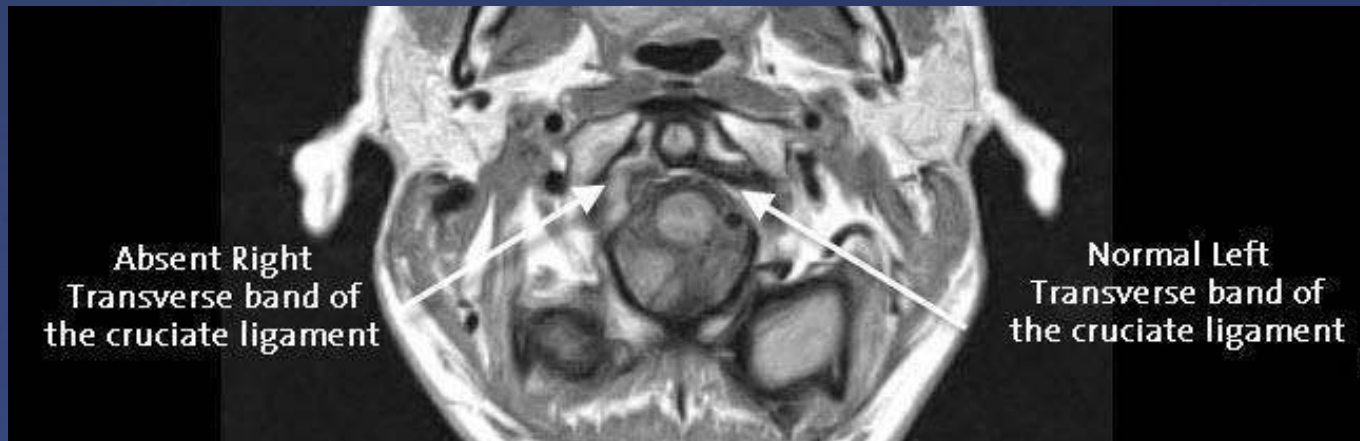
## Cranio –vertebral Ligaments



Normal Alar Ligaments



Normal Transverse band of the  
Cruciate Ligament

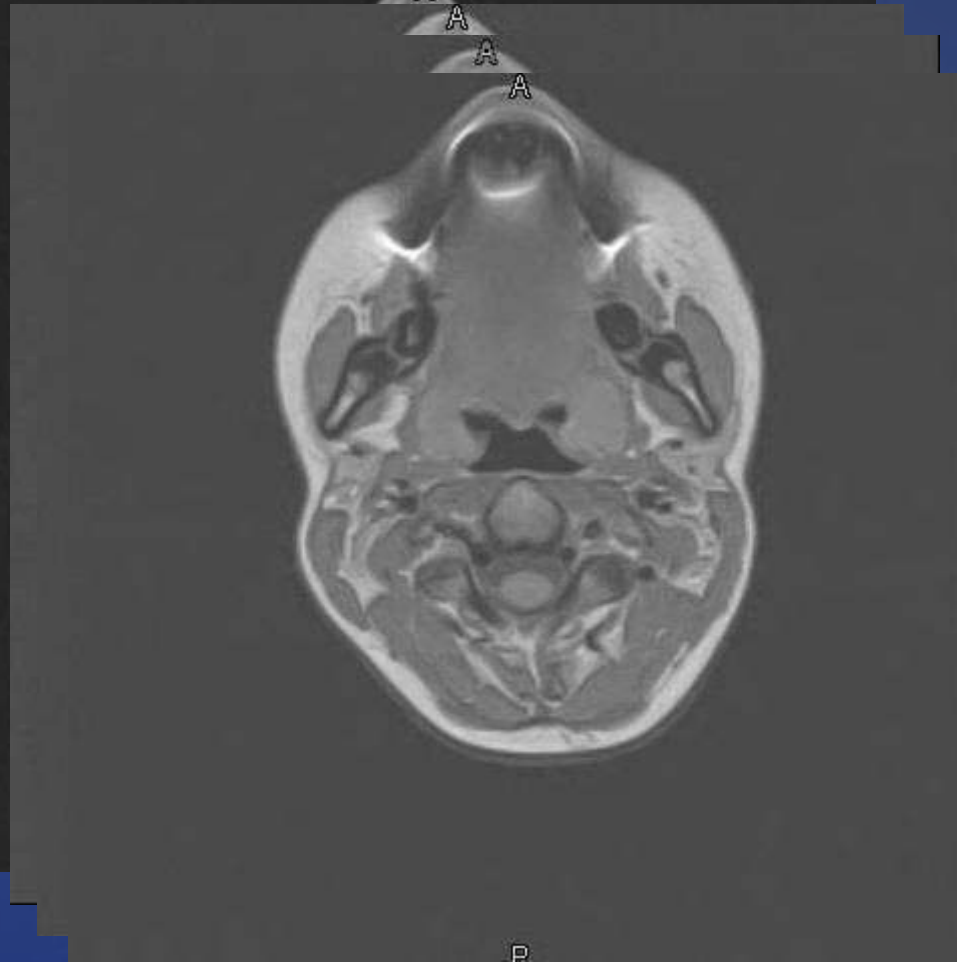


1



10

Specific views to assess the atlanto-axial joint.

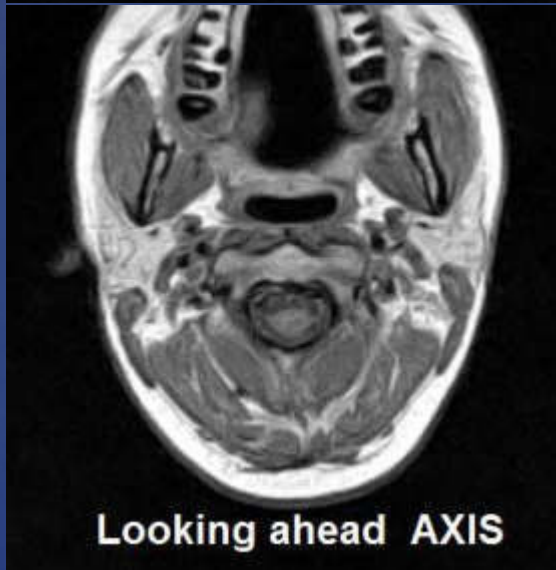
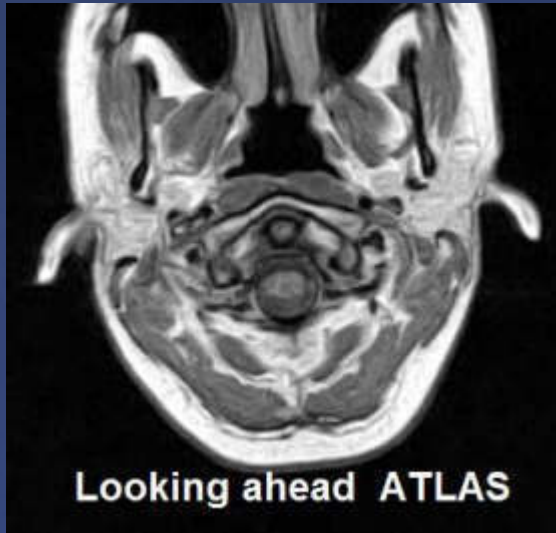


# Specific views to assess the atlanto-axial joint

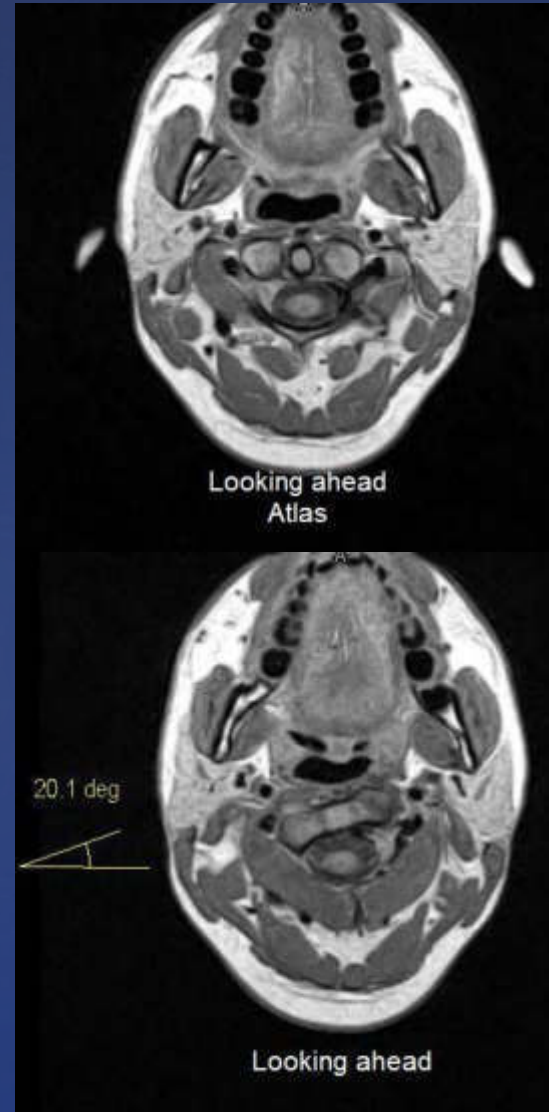




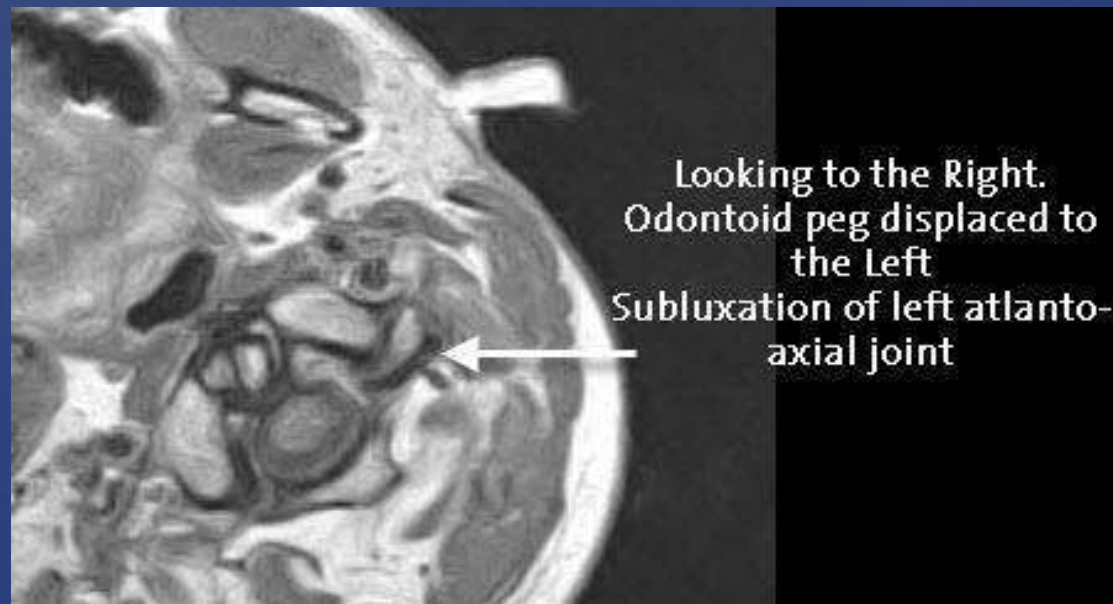
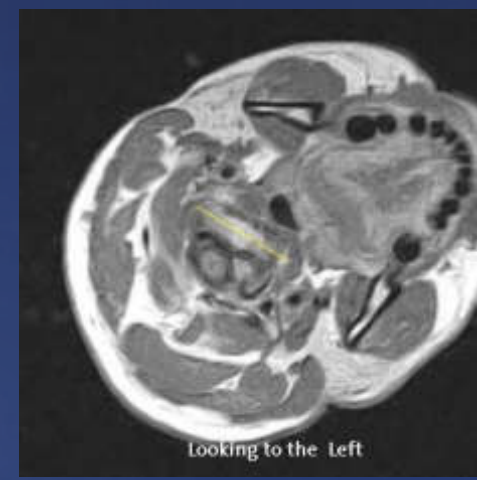
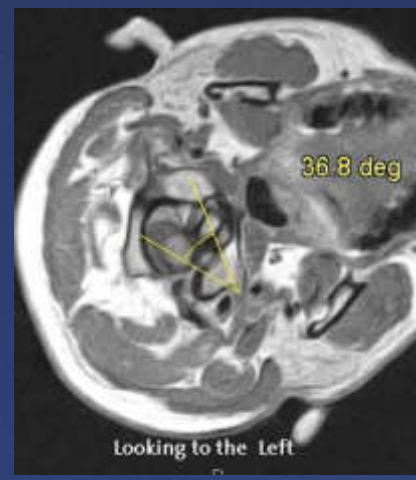
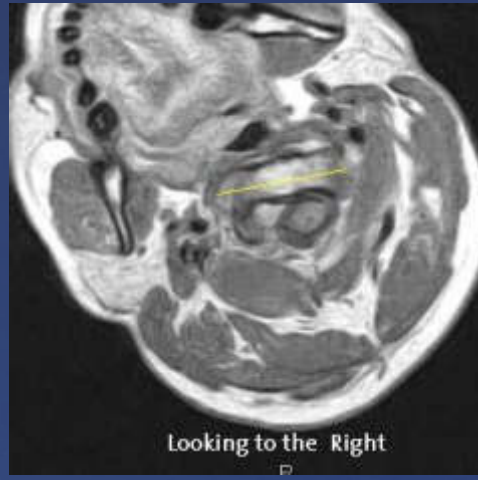
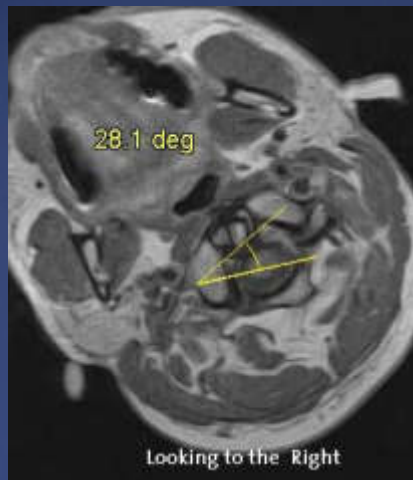
# Specific views to assess the atlanto-axial joint



Normal alignment



20° of dislocation at the  
atlanto-axial joint



# Method and Materials :

E.D.S.	49	average age	34.5yrs	(11 - 64)	42F	7M
Normal control	58	average age	58yrs	(22 – 78)	42 F	16 M