

Anterior Atlanto-axial subluxation

General information

One-third of patients with anterior [Atlanto-axial subluxation](#) have a neurologic deficit or die.

[Subluxation](#) may be due to:

1. disruption (rupture) of the [transverse atlantal ligament](#) (TAL): the [atlantodental interval](#) (ADI) will be increased
 - a) attachment points of the TAL may be weakened in [rheumatoid arthritis](#)
 - b) trauma: may cause anatomic or functional ligament disruption
2. incompetence of the [odontoid process](#): ADI will be normal
 - a) [odontoid fracture](#)
 - b) congenital hypoplasia, e.g. [Morquio syndrome](#)

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