

# Cervical spine deformity surgery

There are many spine surgeries available today; surgical treatment depends upon the size of the cervical deformity present and what the underlying cause of neck pain is. It may be that the deformity by itself is not causing pain and it is a simple matter to fix a herniated disc or bone spurs compressing a nerve root. If deformity surgery is necessary, the surgery may be performed strictly from the front (an ADCF), from the back (a posterior fusion) or from both sides (a 360).

Flexible deformities can be managed with single-staged procedures, whereas fixed deformities require two-staged or even three-staged procedures. Staged surgery for fixed cervical deformities can achieve up to 28 degrees of angular correction and 31% translational correction <sup>1)</sup>.

They often require surgical intervention for treatment of pain, progressive structural decompensation, and neurologic deterioration.

Appropriate treatment involves careful selection of conservative and aggressive measures and familiarity with advanced surgical techniques that allow for the safe correction of these challenging deformities.

Many different surgical options exist for operative management of cervical spine deformities. However, selecting the correct approach that ensures the optimal clinical outcome can be challenging and is often controversial <sup>2) 3)</sup>.

## Books

### Cervical Spine Deformity Surgery Book

<sup>1)</sup>

Chi JH, Tay B, Stahl D, Lee R. Complex deformities of the cervical spine. *Neurosurg Clin N Am*. 2007 Apr;18(2):295-304. Review. PubMed PMID: 17556131.

<sup>2)</sup>

Tan LA, Riew KD, Traynelis VC. Cervical Spine Deformity-Part 1: Biomechanics, Radiographic Parameters, and Classification. *Neurosurgery*. 2017 Aug 1;81(2):197-203. doi: 10.1093/neuros/nyx249. PubMed PMID: 28838143.

<sup>3)</sup>

Tan LA, Riew KD, Traynelis VC. Cervical Spine Deformity-Part 2: Management Algorithm and Anterior Techniques. *Neurosurgery*. 2017 Oct 1;81(4):561-567. doi: 10.1093/neuros/nyx388. PubMed PMID: 28934448.

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