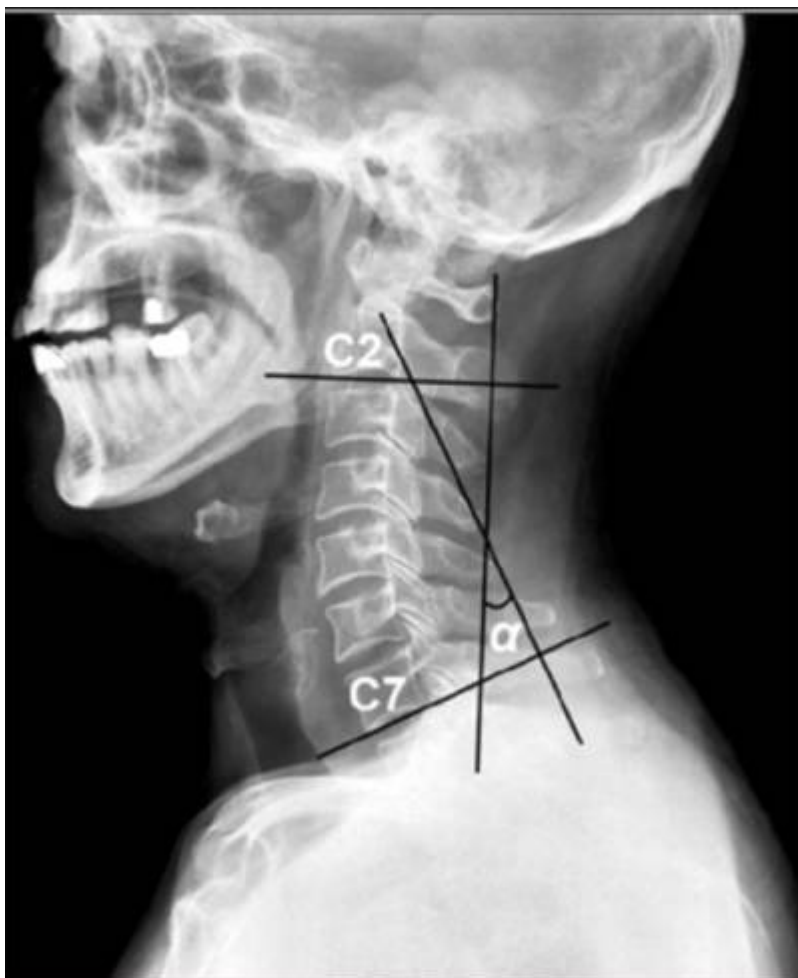


C2-7 Cobb Angle



T1 slope minus C2 C7 angle lordosis (TS-CL) and cervical sagittal alignment reportedly affect health-related quality-of-life (HRQOL) scores following multilevel posterior cervical fusion surgery.

see also [C2-C7 sagittal vertical axis](#)

see also [T1 slope](#)

see also [C7 slope](#)

see also [Neck tilt](#)

Expandable cages are frequently used to reconstruct the anterior spinal column after a corpectomy. In a retrospective study, Pojskic et al. evaluated the perioperative advantages and disadvantages of corpectomy reconstruction with an expandable cage.

Eighty-six patients (45 male and 41 female patients, medium age of 61.3 years) were treated with an expandable cervical titanium cage for a variety of indications from January 2012 to December 2019 and analyzed retrospectively. The mean follow-up was 30.7 months. Outcome was measured by clinical examination and visual analogue scale (VAS); myelopathy was classified according to the EMS (European Myelopathy Score) and gait disturbances with the Nurick scale. Radiographic analysis comprised measurement of fusion, subsidence and the C2-C7 angle.

Indications included [spinal canal stenosis](#) with [myelopathy](#) (46 or 53.5%), [metastases](#) (24 or 27.9%), [spondylodiscitis](#) (12 or 14%), and [fracture](#) (4 or 4.6%). In 39 patients (45.3%), additional dorsal [stabilization](#) (360° fusion) was performed. In 13 patients, [hardware failure](#) occurred, and in 8 patients, [adjacent segment disease](#) occurred. Improvement of pain symptoms, [myelopathy](#), and [gait](#) following surgery were statistically significant ($p < 0.05$), with a medium preoperative [VAS](#) of 8, a postoperative score of 3.2, and medium EMS scores of 11.3 preoperatively vs. 14.3 postoperatively. Radiographic analysis showed successful fusion in 74 patients (86%). As shown in previous studies, correction of the C2-C7 angle did not correlate with improvement of neurological symptoms.

The results show that [expandable titanium cages](#) are a safe and useful tool in anterior cervical corpectomies for providing adequate anterior column support and stability ¹⁾.

Design variations of expandable cages for [vertebral body replacement](#) do not show any significant effect on the biomechanical results. There was no significant difference found, between the biomechanical properties of expandable and non-expandable cages. After corpectomy, isolated implantation of expandable cages plus anterior plating was not able to restore normal stability of the motion segment. As a consequence, isolated anterior stabilization using cages plus LCDCP should not be used for vertebral body replacement in the thoraco-lumbar spine ²⁾.

¹⁾

Pojskic M, Saß B, Nimsky C, Carl B. Application of an Expandable Cage for Reconstruction of the Cervical Spine in a Consecutive Series of Eighty-Six Patients. *Medicina (Kaunas)*. 2020 Nov 25;56(12):E642. doi: 10.3390/medicina56120642. PMID: 33255605.

²⁾

Khodadadyan-Klostermann C, Schaefer J, Schleicher P, Pflugmacher R, Eindorf T, Haas NP, Kandziora F. [Expandable cages: biomechanical comparison of different cages for ventral spondylodesis in the thoracolumbar spine]. *Chirurg*. 2004 Jul;75(7):694-701. German. PubMed PMID: 15258751.

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