

Vertebral body replacement

Vertebral body replacement (VBR) using CFR PEEK cages represents a legitimate surgical strategy that opens a variety of improvements-especially in patients in need of postoperative radiotherapy of the spine and MRI-based follow-up examinations 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 corporectomy, 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⁾

Schwendner M, Ille S, Kirschke JS, Bernhardt D, Combs SE, Meyer B, Krieg SM. Clinical evaluation of vertebral body replacement of carbon fiber-reinforced polyetheretherketone in patients with tumor manifestation of the thoracic and lumbar spine. Acta Neurochir (Wien). 2023 Feb 23. doi: 10.1007/s00701-023-05502-z. Epub ahead of print. PMID: 36820888.

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.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=vertebral_body_replacement

Last update: **2024/06/07 02:52**

