

*Maciej Cabaj, Elżbieta Dąbrowska,
Zbigniew Jagodziński, Marek Kopytek¹*

**Spinal instrumentation DERO system
for the treatment of thoracic and lumbar spine neoplasms.
*The preliminary report***

(Wstępne wyniki leczenia nowotworów odcinka piersiowego i lędźwiowego kręgosłupa z zastosowaniem systemu stabilizacji wewnętrznej DERO)

The group of 5 patients with primary and metastatic tumors of thoracic and lumbar spine were treated operatively with spinal instrumentation DERO. The patients which suffered from severe backpain minor neurological deficit due to spine neoplasms underwent surgical procedure. Surgery and internal stabilization was performed only in these cases in which ensured patients independence in all day life activities. All patients were operated via anterior or posterior approach to the spine. The internal stabilization was performed using vertebral body prosthesis and DisCom device from anterior and transpedicular screws from posterior approach. The patients were examined in short postoperative period, at the time of discharging from the ward and 3 months after surgery.

Follow up estimation ranged from 2 to 20 months.

Conclusions:

1. Surgical treatment of spine neoplasms combined with internal stabilization ceased or decreased severe back pain and neurological deficit.
2. This method prevents neurological deficit following spinal instability due spine neoplasms.
3. It allows the patients to become mobilized just after surgery without rigid orthosis.
4. The patients can be started on early rehabilitation.
5. Decompression of the spinal cord with internal spine instrumentation DERO is a modern method for treatment of thoracic and lumbar spine tumors.

Authors:

¹⁾ *Maciej Cabaj, Elżbieta Dąbrowska, Zbigniew Jagodziński, Marek Kopytek* from Department of Neurotraumatology and Neurosurgery Medical Academy of Łódź Head - Prof. dr hab. med. Z. Jagodziński

Correspondence and reprint request to:

Maciej Cabaj, lek. med
Oddział Neurotraumatologii i Neurochirurgii
Katedry Neurochirurgii AM w Łodzi
ul. Parczewska 35
95-100 ZGIERZ
Poland