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Title: Radiological morphology variances of osteotomized vertebra-disc complex following pedicle subtraction osteotomy for ankylosing spondylitis with thoracolumbar kyphosis: the incidence, mechanisms and prognosis

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2 **complex following pedicle subtraction osteotomy for ankylosing**
3 **spondylitis with thoracolumbar kyphosis: the incidence, mechanisms**
4 **and prognosis**

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25 **Abstract**

26 **BACKGROUND CONTEXT:** Inaccurate osteotomy cut along with incomplete or even
27 subluxated bone-on-bone closure of osteotomy gap following pedicle subtraction osteotomy (PSO)
28 may be disastrous, hampering the lordosing effect and increasing the likelihood of complications.
29 The inelastic yet osteoporotic spine in ankylosing spondylitis (AS) is specially predisposed to such
30 suboptimal osteotomy, while the relevant data concerning this issue is scarce.

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