

언어구분 ENG 논문구분 원저/구연 논문분야 척추
논문제목 전방감압술 및 유합술을 위한 경추부 **plate system**의 생역학적 비교
연구
영문제목 **BIOMECHANICAL COMPARISON OF CERVICAL PLATE
SYSTEMS FOR ANTERIOR CERVICAL DISCECTOMY AND
FUSION: CONSTRAINED VS. SEMI-CONSTRAINED SYSTEMS**
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증례 (**or** 수술술기) : Semi-constrained cervical plate systems are intended to promote fusion after anterior cervical discectomy and fusion(ACDF) by redirecting the load transfer to the bone graft/cage areas by incorporating toggling screws or dynamic plates. However, biomechanical comparisons with the conventional constrained systems are very limited in terms of amount of load-sharing and motion kinematics. In this study, we used finite element analysis(FEA) to investigate changes in load distribution and range of motion(ROM) at the index and adjacent levels at immediately after surgery and after full bony fusion.

acknowledgment :

Cervical plate, anterior fusion, biomechanics
