

Perbandingan Stabilitas Fiksasi Interna antara Plat Daun Waru No Paten ID.00006435 Tipe Locking dan Condylar Buttress Plate pada Fraktur Suprakondiler Femur

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Abstrak

Objective To compare the fixation stability between cloverleaf locking plate and Condylar Buttress Plate ill Supracondylar Femur Fracture Method These research is a biomechanical study, using femoral bovine bones as a specimen. There are two groups, first group using the cloverleaf locking plate and the second group using Condylar Buttress Plate. After instrumented with the implants, the bone were osteomised to make a gap 2,5 cm, then boths specimens are loaded with axial force with Shimadzu machine 0,05 mm per minute speed. The force that made the medial displacement of the bone 1,3,5, I 0 mm were recorded. Result: The axial loading that cause displacement 1,3 ,5, I 0 mm in cloverleaf locking plate are statically more significant with t-test independent significant $p=0,00 <0,05$). The load to failure in cloverleaf locking plate is at 3 mm displacement (3944N) and Condylar Buttress Plate is 3 mm (2810 N). Conclusion: The fixation of cloverleaf locking plate in axial forces is more stable than the Condylar Buttress Plate