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Different Effect of Percutaneous Plate Insertion Via Anteromedial VS Anterolateral Approach on Intracompartmental Pressure of the Leg: A Cadaveric Study.

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Abstract

Background: Currently Minimally Invasive Plate Osteosynthesis (MIPO) technique for tibial shaft fracture management has gained wide attention. However, an increased intracompartmental pressure after the plate insertion may result in postoperative acute compartment syndrome. We reported the difference of immediate effect of percutaneous plate insertion using 2 approaches of MIPO technique on anterior compartment pressure of the legs.

Materials and Methods: Eight soft cadaveric legs (one female and three males) without previous history of skeletal trauma or surgery were infused with normal saline to create the sustained intracompartmental pressure of 20 mm Hg in all four compartments. The Synthes® 4.5 mm. 11-hole Narrow Locking Compression Plate was inserted via anteromedial and anterolateral approach.

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