

Capped Locking Pin Plate Fracture Fixation System

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Technology description

This invention developed by researchers at the University of Missouri is a unique surgical system that will simplify the procedures of fixing fractures in and around joints for surgeons. The invention introduces a new component to the standard fracture fixation surgery to simplify the process of securing K-wires to fracture fixation plates during surgeries to treat distal radius fractures and other similar surgical procedures. This technology should replace current fracture fixation systems designed to treat wrist injuries and has the potential to be applied to other injury sites such as the ankle or any other fracture site stabilized with plates and screws. The distal radius is the most common fracture site in the upper extremities. Such injuries account for approximately one-sixth of fractures treated in United States emergency departments (EDs) and there has been an almost 20% increase in the incidence of distal radius fractures during the past 40 years. The current standard operative treatments are technically demanding for the physicians who conduct the surgery. Given the available options, the current invention provides a new and attractive system for securing small bone fractures.

Application area

Human and veterinary orthopedic surgery, craniofacial surgery

Advantages

- Simplifies the process of securing K-wires to a plate
- Able to capture smaller bone fragments than current fracture fixation systems
- Less technically demanding and more effective procedure for surgeons
- Allows for easy adjustment and replacement of K-wires securing the fracture

Institution

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