Reviewer’s report

Title: Dynamic compression nail: a preliminary report

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Reviewer: Prof Volker Buehren

Level of interest: A paper whose findings are important to those with closely related research interests

Advice on publication: Accept after revision, which I do not need to see

The biomechanical principle of intramedullary compression osteosynthesis is based on the implantation of a movable intramedullary nail that is statically interlocked in distal round holes and dynamically interlocked in a proximal slot. Distraction of the nail against the proximal interlocking screw by means of a compression screw leads to relative movement of the proximal fragment directed distally against the nail. This results in direct contact of the main fragments under increasing compression. Clinical experience from use of this type of compression nail over more than 10 years has been reported for several hundreds of cases. Simple fractures, pseudarthroses and osteotomies within the diaphyses of long bones like femur, tibia and humerus represent promising indications. The case study of Gupta from India supports the clinical findings from elsewhere in the world. Ref.: Buehren V [2000] Intramedullary compression osteosynthesis. Unfallchirurg 103:708-720

Competing interests:

None declared.