Data for IMPLANTES OPTIONS design and publication

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Technology description

Introduction
During surgery, orthopaedic implants are subjected to mechanical force, which may lead to complications due to excessive torsional efforts. This complication may occur immediately, resulting in shear rupture of the implant, or delay, which may result in bone fracture and/or tissue resorption.
If there is torque monitoring during the operation, complications can be avoided. As such, that present invention is a digital caliper suitable for implant insertion or removal procedure, is an innovative and effective instrument for monitoring torque, and can prevent fracture and orthopaedic complications.
Objective
The present invention is composed of ratchet type digital calipers, which can monitor insertion and/or withdrawal torque of orthopaedic implants, and is different from the existing methods which can accurately analyze torque on the market.
Additional information
Developed at the University of S ã o Paulo's Black Ribeiro School of Medicine (FMRP). Patent applications have been deposited for licensing or industrial development in cooperation with USP.
Stage of development

Application area

Surgical equipment industry.

Institution

Universidade de São Paulo

Inventors

Helton Luiz Aparecido Defino

MÉDICO
Antônio Carlos Shimano
PROFESSOR
3 - FMRP - BIOMECÂNICA, MEDICINA E REABILITAÇÃO DO APARELHO LOCOMOTOR
Patrícia Silva
DOCENTE
CURSO DE FISIOTERAPIA
Rodrigo César Rosa
DOCENTE
BIOLOGIA ESTRUTURAL

联系我们

叶先生

电 话：021-65679356
手 机：13414935137
邮 箱：yeyingsheng@zf-ym.com