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This research analyzed the effect of bilateral hinged knee braces on a healthy knee from a biomechanical frame in vivo. This was accomplished by fitting a knee brace with two customized wireless force/torque (F/T) sensors that could readily record force and torque during live motion, while the kinetics at the knee were computed using the inverse dynamics of the motion capture and force plate data.

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Frontiers | Biomechanical Analysis of the Effects of ...

A biomechanical analysis of the effects of bouncing the barbell in the conventional deadlift. *J Strength Cond Res* 33 (7S): S70-S77, 2019-The purpose of this study is to analyze biomechanical differences between the bounce and pause styles of deadlifting. Twenty physically active males performed deadlifts at their 75% one-repetition maximum testing using both pause and bounce techniques in a within-subjects randomized study design.

A Biomechanical Analysis of the Effects of Bouncing the ...

Abstract. In a previous ultrastructural study, the benefit of a single high dose of vitamin D 3 on fracture healing in a healthy animal model was demonstrated. This study examined the biomechanical consequences of applying a single high dose of vitamin D 3 in a healthy rabbit model subsequent to femoral fracture. The fracture load, the values of energy absorbed until fracture and the flexural ...

Biomechanical analysis of the effects of single high-dose ...

Analysis of biomechanical effects on bone and on the muscle-bone interactions in small animal models J.L. Ferretti 1,2 , G.R. Cointy 1 , R.F. Capozza 1 , R. Capigliani 1,2 , M.A. Chiappe 3 (PDF) Analysis of biomechanical effects on bone and on the ...

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Although intended to study the biomechanical effects of resorption cavities, the results of this study can provide insights into the effects of anti-resorptive therapy. By viewing models with cavities as a pre-treatment condition and models without cavities as a post-treatment condition (in which the resorption cavities have been filled) the current study can be viewed as a simulation of anti-resorptive therapy.

A Biomechanical Analysis of the Effects of Resorption ...

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Biomechanical exploration of the effects of total ankle arthroplasty on the foot and ankle is imperative for the precaution of postoperative complications. The objectives of this study are (1) to investigate the biomechanical differences of the foot and ankle between the foot with total ankle arthroplasty and the intact foot and (2) to investigate the performance of the three-component ankle prosthesis.

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Finite element analysis of biomechanical effects of total ...

The effects of foot type on the occurrence of lower limb injury during sporting activities and different aspects of biomechanics are reviewed, and the effects of applying orthoses on injury treatment and prevention and on various aspects of biomechanics of the lower limb joints are discussed. Further research is required, firstly to establish the casual effect of foot type and function on the risk of lower extremity overuse injury, and secondly to document the specific effect of orthotic ...

Biomechanical Analysis of the Effect of Orthotic Shoe ...

Keywords: Endolign; Finite element analysis; PEEK; Platform-switched dental implant; Titanium.

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A biomechanical analysis of the effects of bouncing the barbell in the conventional deadlift. J Strength Cond Res 33 (7S): S70-S77, 2019-The purpose of this study is to analyze biomechanical differences between the bounce and pause styles of deadlifting. Twenty physically active males performed deadlifts at their 75% one-repetition maximum testing using both pause and bounce techniques in a within-subjects randomized study design.

A Biomechanical Analysis of the Effects of Bouncing the ...

Biomechanical Analysis of the Effects of Upper Limb Orthosis During the Execution of a Functional Task The safety and scientific validity of this study is the responsibility of the study sponsor and investigators. Listing a study does not mean it has been evaluated by the U.S. Federal Government. Read our disclaimer for details.

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Biomechanical Analysis of the Effect of Orthotic Shoe Inserts A Review of the Literature Mohsen Razeghi and Mark Edward Batt Centre for Sports Medicine, Division of Orthopaedic and Accident ...

Biomechanical Analysis of the Effect of Orthotic Shoe Inserts

Biomechanical analysis of the effects of Bilateral hinged Knee Bracing Hangil Lee, Dokyeong Ha, Yeoun-Seung Kang and Hyung-Soon Park* Mechanical Engineering Department, Korea Advanced Institute of ...

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Biomechanical Analysis of the Effects of Bilateral Hinged ...

Few studies consider the biomechanical effect of bracing in the sagittal plane and report inconsistent findings for the flexion and extension moments. The inconsistent findings and suggestions that both the knee adduction and flexion moment contribute to future disease progression highlight a need for future investigations of valgus bracing beyond the frontal plane 39 , 60 , 61 .

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