

Title (en)
METHOD FOR SIMULATING MUSCULOSKELETAL STRAINS ON A PATIENT

Title (de)
VERFAHREN ZUR SIMULATION MUSKULO-SKELETTALER BELASTUNGEN EINES PATIENTEN

Title (fr)
PROCEDE DE SIMULATION DES CONTRAINTES MUSCULO-SQUELETTIQUES D'UN PATIENT

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Abstract (en)
[origin: WO2004095341A2] The invention relates to a method and a device for simulating musculoskeletal strains on a patient, especially for preparing or monitoring surgical interventions and/or planning and/or monitoring rehabilitation. According to the invention, individual musculoskeletal parameters of the patient are determined first, particularly by automatically measuring anthropometric parameters and/or the position and/or alignment of joints, especially also gait-related data such that individual musculoskeletal strains are automatically determined from the determined musculoskeletal parameters of the patient. The individual musculoskeletal strains thus determined are evaluated in a computer-assisted manner regarding at least one target criterion, particularly the contact forces or the degree of motion of a joint or the fragment movements of a fracture. The aim of the invention is to create a method for evaluating musculoskeletal strains on a patient, by means of which above all surgical interventions or rehabilitative measures can be improved.

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