telos Stress Device



X-Ray protection and standardization

The rupture of a ligament depends on the direction, speed and force which occur on the ligament or at the fixation points on the bone.

The X-ray can only show the injury when the ligament is ruptured at the bone and contains a fragment of the bone. Normally, the rupture of the ligament can be demonstrated by a stress X-ray. During this procedure the joint is forced into an extreme position, which leads to an opening or subluxation. There have been routine methods developed for each joint, which allow for a standardization in the diagnosis of ligamentous tears. Evaluations pre and post treatment with quantitative comparison for both the function and stability of the joint, is easily accomplished by utilizing the stress device examination.

Precondition to make this specific functional diagnostic examination work properly is to regard all biomechanically relevant joint stabilizing factors, which are: To evaluate the ligamentous structures point 1 and 2 have to be minimized by putting the patient in positions which allow for muscle relaxation and the stress on the ligament cannot be obstructed by the anatomy of the joint.

The anatomical stabilization of the joint is ruled out by the design of the telos Stress Device if the device is set up properly and the position of the patient is accordingly. Muscular compensation is cleary indicated through the electronic readout and should be checked on the forefoot of the patient. Prior to taking stress X-rays it is recommended to take normal X-rays in two planes in order to rule out bone fractures where stress X-rays are contra-indicated.

With the telos Stress Device examination and documentation of the collateral ligaments as well as the cruciate ligaments of the knee can be easily performed.

- 1. the specific anatomy of the joint
- 2. the muscles
- 3. the capsular-ligamentous apparatus.



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Phone: +49 6036 9705 0 E-Mail: info@telos-gmbh.com Internet: www.telos-stress-device.com Anterior ankle joint

Anterior ankle joint in a.-p.-position for x-ray. Examination of the ligamentum calcaneofibulare.

