

Mechanisms of traditional Chinese medicine therapy

Fujian University of Traditional Chinese Medicine (TCM) is located in the Fujian province of China. Its 3D Motion Analysis Lab was established in 2011 and is an essential part of the National & Local Joint Engineering Research Center of Rehabilitation Medical Technology. The Qualisys motion capture system is used to quantify the movement control mechanism.

The lab independently developed and designed a three-axis adjustable stair apparatus to simulate climbing movement in the laboratory to perform research on patients with knee osteoarthritis (KOA). Movement characteristics of patients are



analyzed using the installed force platforms.

Studies performed to analyze the motion of TaiChi help people understand TaiChi more scientifically and allow practitioners to practice TaiChi effectively and harmlessly. Traditional Chinese medicine therapy, such as electroacupuncture and Taijiquan, are also used to treat the patients with KOA, then analyze the effects on musculoskeletal system and motor control.



SYSTEM SETUP

- 10 Qualisys 700+ cameras
- 2 Qualisys 210c cameras
- 4 Kistler force plates
- Delsys EMG
- Sensor Medica Platforms

The lab is responsible for teaching gait analysis and biomechanics to graduates and undergraduates in rehabilitation and also works with hospitals to translate scientific research results into clinical treatments, such as the development of the spine stretching bed, and its application for scoliosis patients, appropriate use of orthosis upper and lower extremity support.



“Qualisys 3D motion capture system is mainly used in the lab for research on sports rehabilitation, Chinese medicine rehabilitation, women’s health, and so on.”

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As a university of traditional Chinese medicine, the 3D Motion Analysis Lab at the Rehabilitation Industry Institute of Fujian University of Traditional Chinese Medicine has conducted in-depth research on the motion control mechanisms of various traditional Chinese medicine therapies.